

# **INSTALLATION & OPERATION MANUAL**

## **DDK-1800D**

**Fixed Indoor/Outdoor IP Dome Camera**



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## **SAFETY PRECAUTIONS**

Please read the following safety and operational instructions carefully to prevent harm or injury to the operator.

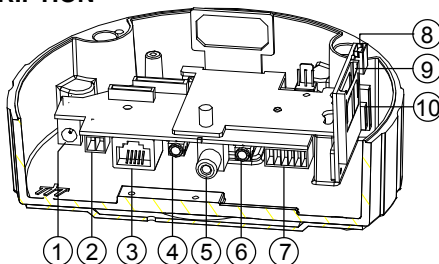
### **WARNING**

- To prevent fire or shock, avoid exposing this unit to moisture.
- Do not block ventilation openings.
- Never spill liquid of any kind on the camera
- Do not attempt to service the DDK-1800D yourself. Opening the DDK-1800D's enclosure may expose the user to electrical shock. Please refer all servicing to your reseller.
- Do not use liquid cleaners or aerosols for cleaning.



# 1. DESCRIPTION

## 1.1 PHYSICAL DESCRIPTION



1. **Power Input:** DC 12V input connects to an external power supply.
2. **Power Input:** AC 24V input connects to an external power supply.
3. **ETHERNET 10/100 Connector:** Standard RJ-45 connector for 10/100 Mbps Ethernet networks. PoE (Power over Ethernet) function: Provides power to the device via the same cable as used for the network connection.
4. **AUDIO IN:** Connector is used to connect the audio output from other devices to the DDK-1800D.
5. **VIDEO OUT Connector:** Connector provides Composite video output
6. **AUDIO OUT:** Provides DDK-1800D audio signal to an external device.
7. **GPIO:** 6-PIN connector for **digital I/O**, **DC output** and **GROUND** for connecting with external devices.
8. **USB port:** Connects DDK-1800D to a USB port on a Computer.
9. **SD/ SDHC CARD slot:** Used for updating system software and archiving video.
10. **RESET:** Reset to factory default. (Refer to section 1.4 The Reset Button.)

## 1.2 The Reset Button

The **Reset Button** will bring the DDK-1800D back to its factory default settings. Press the **Reset Button** for about 10 seconds. A Blue screen will be displayed and a text that says "RESETTING..." will appear. The device will then auto reboot. All settings will then be back to default. The following items will return back to default.

### [SETUP]

#### Network Setup

- a. LAN Settings (You can manually reset this function.)
- b. PPPOE Settings (You can manually reset this function.)

#### Dynamic DNS

- a. DYNAMIC DNS SETTING (You can manually reset this function.)

#### IMAGE SETUP

- a. Privacy Mask Setting
- b. IMAGE SETTINGS

#### AUDIO AND VIDEO

- a. VIDEO PROFILE 1
- b. VIDEO PROFILE 2
- c. AUDIO SETTINGS

#### MOTION DECTION

- a. Video Motion setting

#### TIME AND DATE

- a. TIME CONFIGURATION
- b. AUTOMATIC TIME CONFIGURATION
- c. SET DATE AND TIME MANUALLY

#### Event Setup

- a. Server
- b. Media
- c. Event
- d. Recording

### [ADVANCED]

#### DI and DO

- a. DI and DO
- b. LED
- c. VIDEO OUTPUT

#### ICR

- a. ICR

#### HTTPS

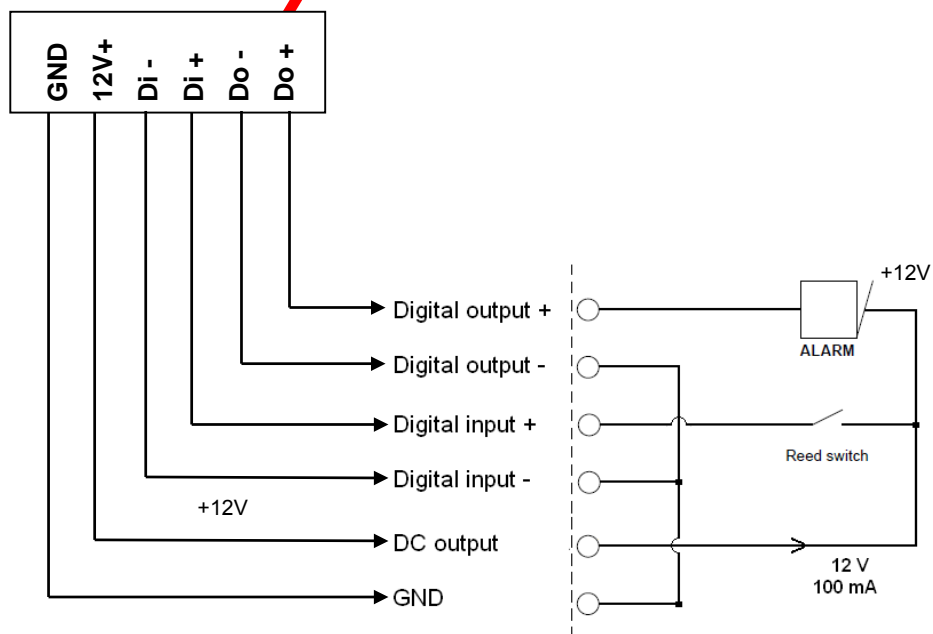
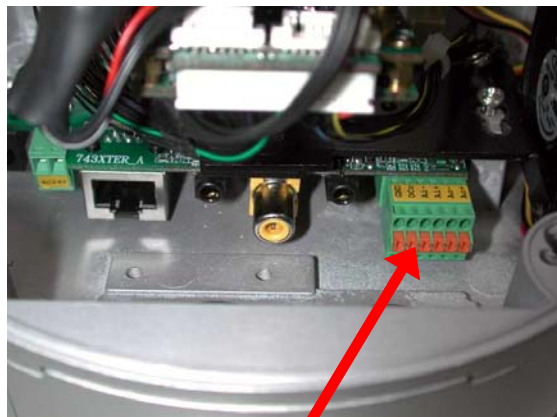
- a. HTTPS

#### Access List

- a. Allow List
- b. Deny List

### 1.3 Alarm wiring diagram

DDK-1800D





## 1.4 The USB function

The DDK-1800D can provide two separate functions by connecting the DDK-1800D with a PC via the USB connector

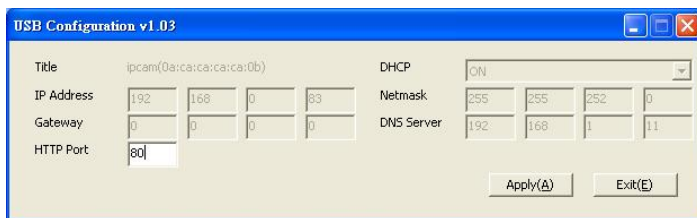
### 1. Using an SD card as a card reader.

Insert an SD card into the DDK-1800D and then connect to the PC. You may then transfer files between the SD card and the PC. Once you've connected your DDK-1800D to your computer Windows will detect the connection and ask you what you want to do with the SD card.

### 2. Using an SD card as a configuration tool.

Before using the USB configuration setting page remember to remove the SD card or the PC won't show this window.

## DHCP ON

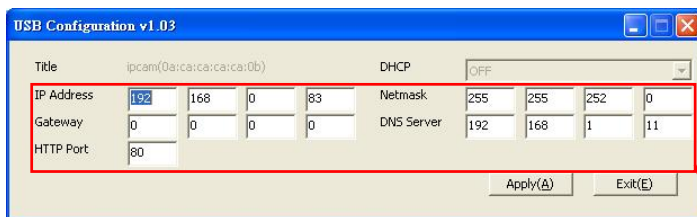


The screenshot shows the 'USB Configuration v1.03' window. The 'Title' field contains 'ipcam(0a:ca:ca:ca:ca:0b)'. The 'DHCP' dropdown menu is set to 'ON'. The 'IP Address' field is set to 192.168.0.83, 'Netmask' is 255.255.252.0, 'Gateway' is 0.0.0.0, and 'DNS Server' is 192.168.1.11. The 'HTTP Port' field is set to 80. There are 'Apply(A)' and 'Exit(E)' buttons at the bottom right.

---

## DHCP OFF

(default)



The screenshot shows the 'USB Configuration v1.03' window with 'DHCP' set to 'OFF'. The 'IP Address' field is highlighted with a red box, showing the value 192.168.0.83. The 'Netmask' is 255.255.252.0, 'Gateway' is 0.0.0.0, and 'DNS Server' is 192.168.1.11. The 'HTTP Port' is 80. There are 'Apply(A)' and 'Exit(E)' buttons at the bottom right. A red arrow points from the 'Network Setting' label to the red box around the IP address field.

**Network  
Setting**

**NOTE:** After changing the settings, click the “Apply” button. All changes will be effective after removing the USB connector.

**NOTE:** After the IP address has been changed or reset, unplug the network cable and then plug it in again to make sure the network connection is in normal mode.

## 2. INSTALLATION

Follow the instructions and the diagram below to set up the system.

**NOTE:** The DDK-1800D's Video Out connector can be connected to a monitor via RCA connection. When connected you will see information on the monitor screen, including the DDK-1800D's factory default IP address (192.168.1.168). The DDK-1800D's IP address will only appear if there is a connection between the DDK-1800D and another device.

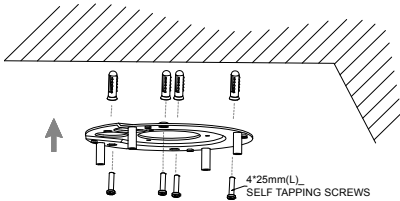
### 2.1 Hardware Installation

1. If using external power, connect power adapter to DDK-1800D.
2. Connect network cable to DDK-1800D's RJ45 connection.
3. Confirm the correct network connection status.
4. Enter DDK-1800D's IP address into your browser.

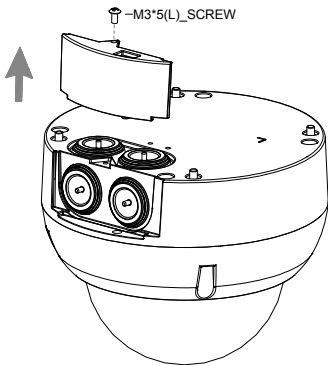
## 2.2 DDK-1800D Mini-Dome (PoE) Installation

### Connecting the DDK-1800D through side of base

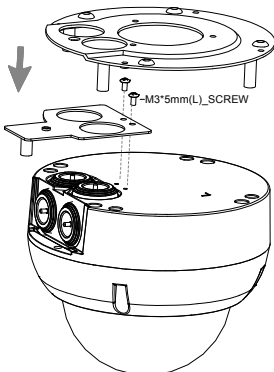
Step 1. Attach the base to surface with the provided screws.



Step 2. Unscrew the side panel cover and remove.

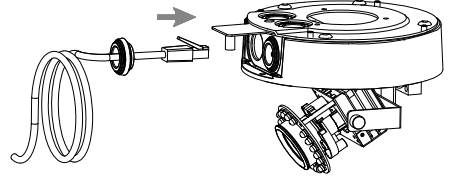


Step 3. Detach the base top from the DDK-1800D. Put the flat metal strip on the dome and attach with the included screws. Attach the base on the dome and screw in place.

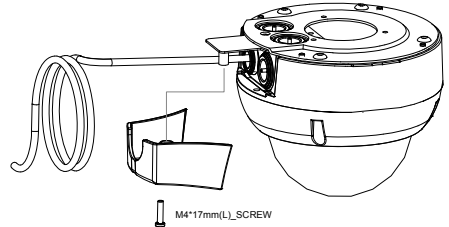


DDK-1800D

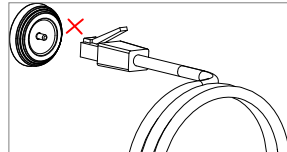
Step 4. Insert the cable in the side port.



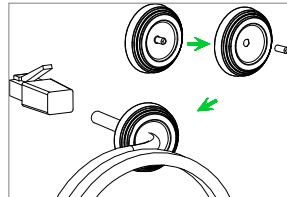
Step 5. Attach the side panel cover. Screw cover to flat metal strip.



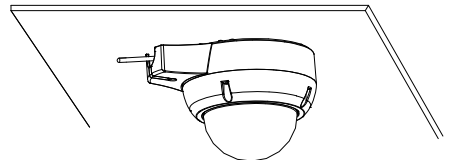
**NOTE:**  
**Wrong**



**Right**



Step 6. The dome is now attached to the ceiling.



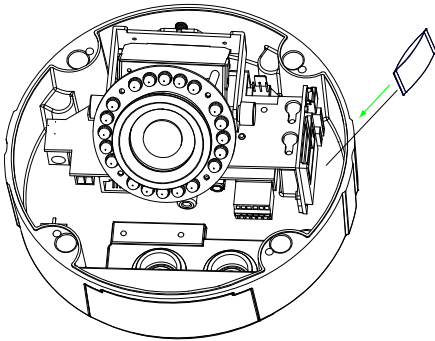
### 2.3 Placing a Desiccant Pack Inside the DDK-1800D

The DDK-1800D comes with a desiccant pack which should be placed inside the camera using two-sided adhesive tape. The desiccant pack is for reducing the moisture and humidity inside the camera and prevents moisture from condensing on the lens or its cover.

If the user decides to remove the DDK-1800D cover after more than a few months of use, the used desiccant pack should be removed and place a replacement pack inside the camera.

1. Adhere the desiccant pack to the inner side of the DDK-1800D.
2. Use two-sided adhesive tape to attach the desiccant pack.
3. Reattach the cover of the DDK-1800D.

DDK-1800D:



## 2.4 Updating System Software

If the system software of the DDK-1800D needs to be upgraded, follow these steps

**Important:** Before carrying out this procedure, please ensure the SD card is working and the file of the system firmware is intact

1. Create a directory with the name **DDK-1800D** on the SD card if it does not already exist.
2. Copy the file UPDATE.BIN to the **DDK-1800D** -directory.
3. Shut down DDK-1800D's power.
4. Insert the SD CARD into the DDK-1800D.
5. Remove the Ethernet cable from the RJ-45 port and then power on camera.
6. Within 5 to 10 seconds, a message reading "UPDATE PROCESSING" will show up on the screen in a blue background. DO NOT power off the DDK-1800D while update process is running until the message "UPDATE OK RESET PLEASE" appears on the screen. This may take 15 to 30 seconds to appear.
7. If the message "UPDATE NG RESET PLEASE" appears, write down the error messages shown on the screen and contact manufacturer. Power off the DDK-1800D when the update process is finished and then remove the SD card from the camera.
8. Reconnect the Ethernet cable to the RJ-45 port. Power ON the IP camera.
9. Verify the version of the system software.

### **WARNING:**

- If the power of the DDK-1800D is suddenly lost in step 7, remove the SD card first and then power the camera on. If the DDK-1800D operates normally repeat step 3. Otherwise contact the manufacturer.
- If the message "CSUM ERROR" appears in step 7, there is a problem with the UPDATE.BIN file. .

### 3. Network Configuration

#### 3.1 Cable Connections

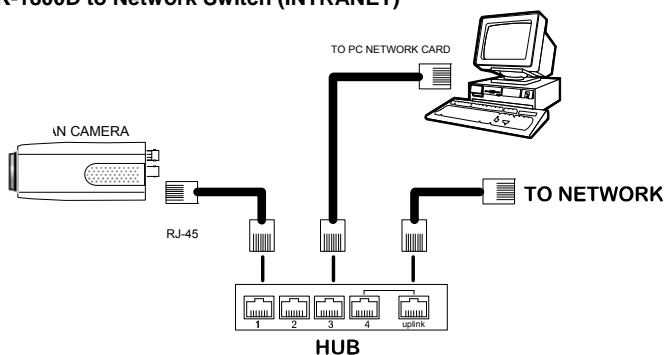
##### Physical specifications of RJ-45 cable for Ethernet

|                                 |                  |
|---------------------------------|------------------|
| Wire Type                       | Cat. 5           |
| Connector Type                  | RJ-45            |
| Max. Cable Length               | 100 m            |
| Hub/Switch Wiring Configuration | Straight Through |
| PC Wiring Configuration         | Straight Through |

##### 3.1.1 DDK-1800D to Computer connection



##### 3.1.2 DDK-1800D to Network Switch (INTRANET)



## 3.2 Network Settings Configuration

### 3.2.1 Enabling DHCP Function

The DDK-1800D's default setting is **DHCP OFF**. Users can build the camera working environment with a static IP address. The default static IP is **192.168.1.168**.

### 3.2.2 Setting an IP Address

You need to set an IP address for the unit if DHCP is not supported on the network. Otherwise, please follow the instructions given below:

**Note:** The default static IP is **192.168.1.168**.

Set the **IP**, **MASK** and **GATEWAY** settings to the following:

|          |               |
|----------|---------------|
| IP:      | 192.168.1.X   |
| MASK:    | 255.255.255.0 |
| GATEWAY: | 0.0.0.0       |

**NOTE:**

When a DDK-1800D is connected to a WAN, you must acquire a unique, permanent IP address and correctly configure the MASK and GATEWAY settings according to your network architecture. If you have any questions regarding those settings, please consult a qualified MIS professional or your ISP.

**NOTE:** When connecting to a network, each connected DDK-1800D must be assigned a unique IP address, which must be in the same class type as your network address. IP addresses are written as four sets of numbers separated by periods; for example, 192.168.1.1 Therefore, if the connected network is identified as Class C, for example, the first three sets of numbers of the DDK-1800D IP address must be the same as the network address. If the connected network is identified as Class B, the first two sets of numbers of the DDK-1800D IP address must be the same as the network address. If you have any questions regarding these settings, please consult a qualified MIS professional or your ISP.

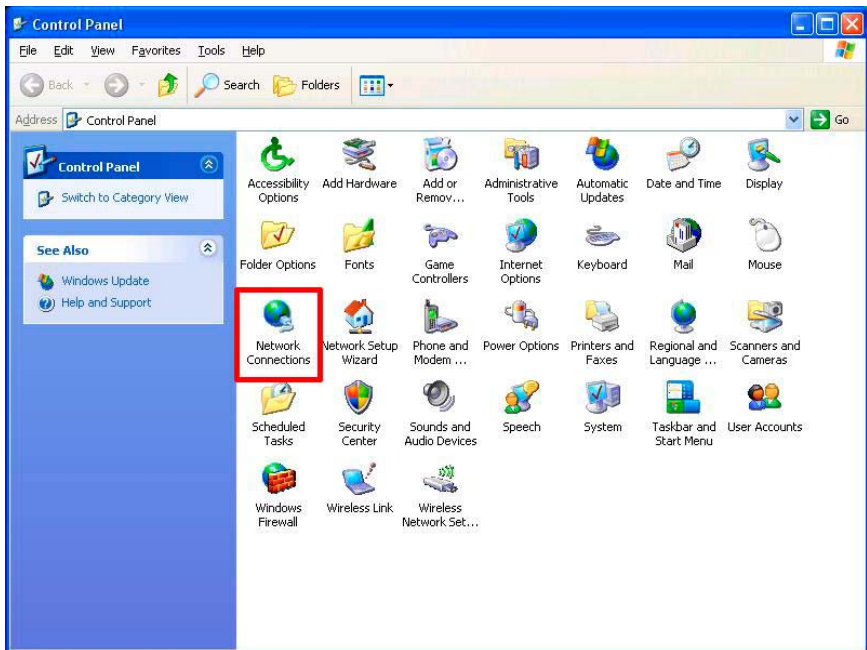
### 3.3 TCP/IP Communication Software

Follow the procedure below to install the TCP/IP communication program on your computer.

1. Click **Start**, and then click **Control Panel**.

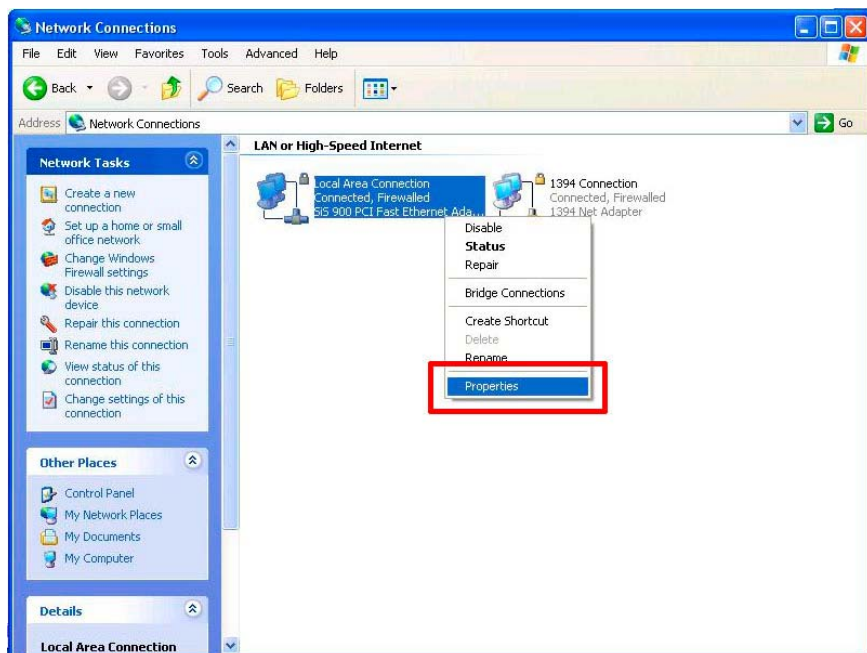


2. Double click the **Network Connections** icon

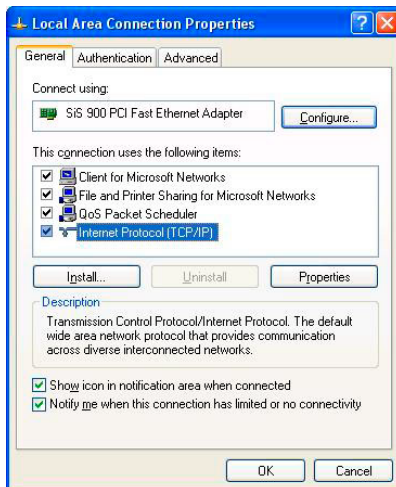


3. Right-click your network connection and then click **Properties**.



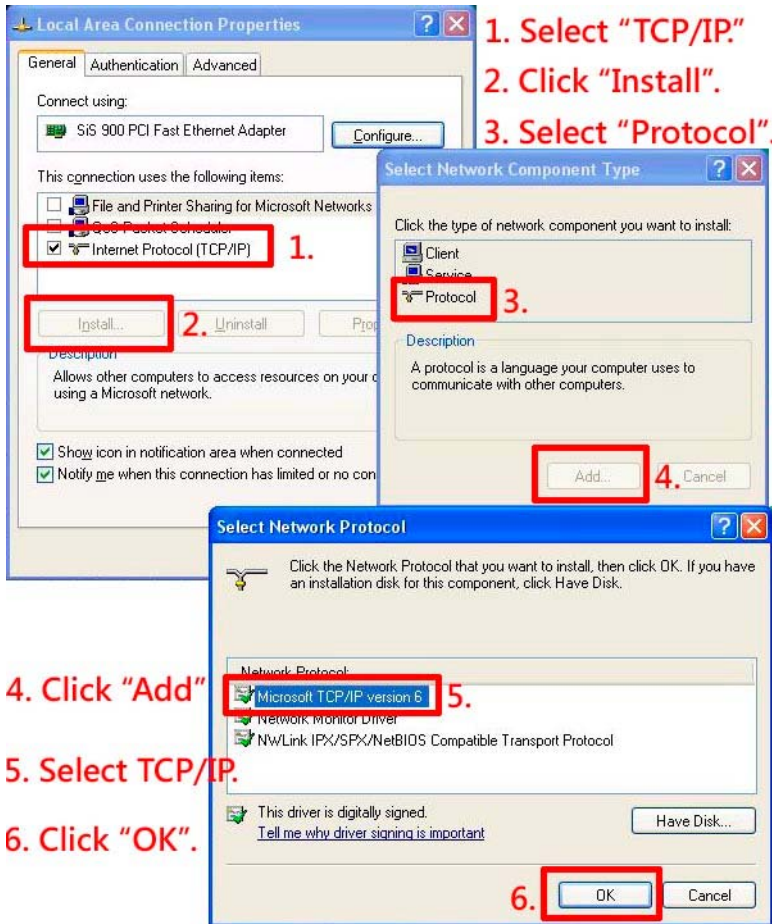


4. On the **General** tab, check if the Internet Protocol (TCP/IP) is included in the list. If the TCP/IP is included, proceed to section 3.5. If it is not included, please follow section 3.4 to install the TCP/IP.



### 3.4 TCP/IP Installation

On the **General** tab of Connection Properties, under “This connection uses the following items”, click **Internet Protocol (TCP/IP)**. Then click **Install**. Select **Protocol** from the network component type then click **Add**. Select **Microsoft TCP/IP** from the network protocol then click **OK**. Click **Close** to return to the **Network Connections** window.

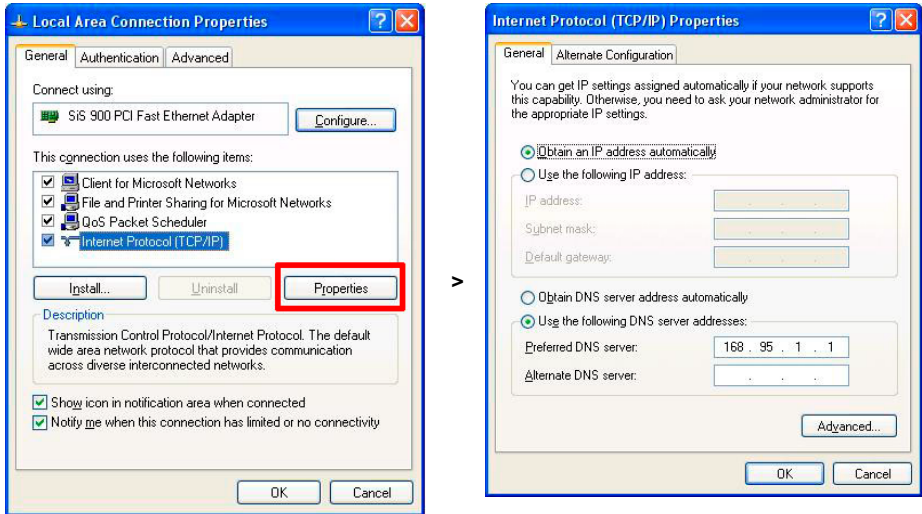


### 3.5 TCP/IP configuration setting

Click **Start > Control Panel > Network Connections**.

Select **Internet Protocol (TCP/IP)**, and then click **Properties**.

Before completing installation to the LAN, make sure the Internet connection works properly.

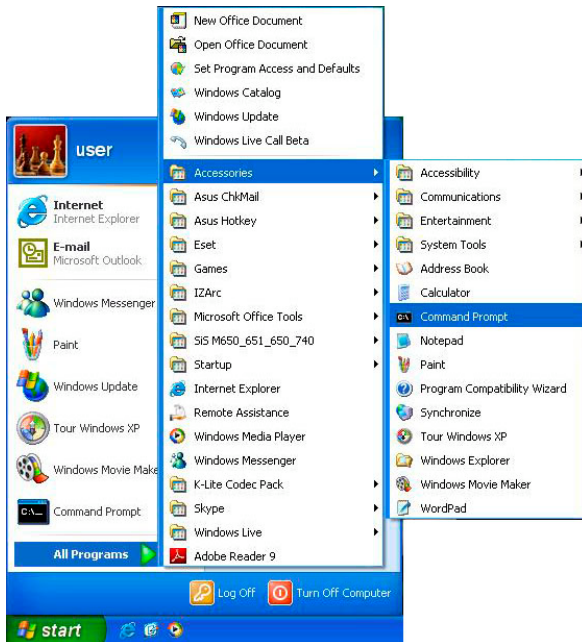


If you are using a DHCP server, select **Obtain an IP address automatically**. Any assigned IP address for the connected DDK-1800D must be in the same class type as the server. If there is no DHCP server, please select **specify an IP address** and enter the IP address, subnet mask and default gateway of your choosing to your PC. This IP address must be different from other network IP devices but in the same class type.

### 3.6 Connection Testing

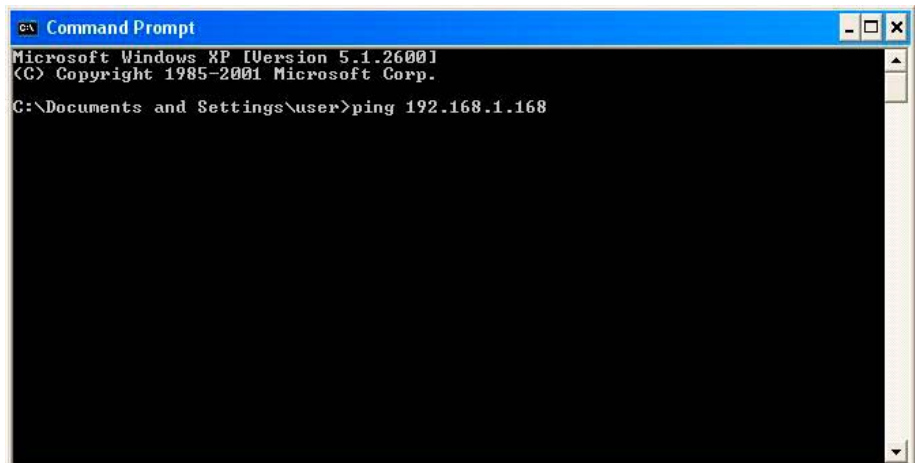
With the previous settings, follow the instructions below to ensure whether you have established the connection successfully.

1. Click **Start > All Programs > Command Prompt**.



2. Enter **ping XXX.XXX.XXX.XXX** (the DDK-1800D's IP address), then enter. (See the sample screen below).

**\*\* This is the IP address for a DDK-1800D that is assigned for the connected camera.**



If you receive a response as in the screen below, the connection hasn't been successfully established. Please re-check all the hardware and software installations by repeating sections 3.4 and 3.5. If you still can't establish the connection after rechecking, please contact your dealer.

```
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\user>ping 192.168.1.168
Pinging 192.168.1.167 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.1.168:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Documents and Settings\user>
```

If you receive a response as in the screen below, you have successfully made the connection.

```
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\user>ping 192.168.1.168
Pinging 192.168.1.168 with 32 bytes of data:

Reply from 192.168.1.168: bytes=32 time=1ms TTL=100
Reply from 192.168.1.168: bytes=32 time<1ms TTL=100
Reply from 192.168.1.168: bytes=32 time=1ms TTL=100
Reply from 192.168.1.168: bytes=32 time<1ms TTL=100

Ping statistics for 192.168.1.168:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\Documents and Settings\user>
```

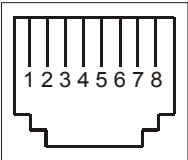
## 4. Operating Instructions for Software and Network Connection

The DDK-1800D may be accessed through a Web Brower or through Viewer Software.

RJ-45 PIN configuration for Ethernet

| PIN NO. | PIN Assignment |
|---------|----------------|
| 1.      | TX +           |
| 2.      | TX -           |
| 3.      | RX +           |
| 4.      | Not Connected  |
| 5.      | Not Connected  |
| 6.      | RX -           |
| 7.      | Not Connected  |
| 8.      | Not Connected  |

RJ-45 socket



Physical specification for Ethernet

|                          |                                |
|--------------------------|--------------------------------|
| Wire type                | Cat. 5                         |
| Connector type           | RJ-45                          |
| Max. cable length        | 100 m                          |
| Hub wiring configuration | Straight Through or Cross Over |
| PC wiring configuration  | Straight Through or Cross Over |

## 4.1 Web Browser

### 4.1.1 Connecting the DDK-1800D

1. Start up your Web Browser, and then follow the steps below to connect the DDK-1800D.
2. Click on the URL box at the top of the window.
3. Enter the URL address of the DDK-1800D into the URL box and press the **"Enter"** key to enter the home page.
4. Enter the "User Name" and "Password" in the appropriate spaces.
5. Click on the **"OK"** button to set your entries.

**NOTE:** The default "User Name" and "Password" are root and Admin, respectively.

**NOTE:** The page headlined "Enter Network Password" is shown below. Enter the user name and password of the DDK-1800D.

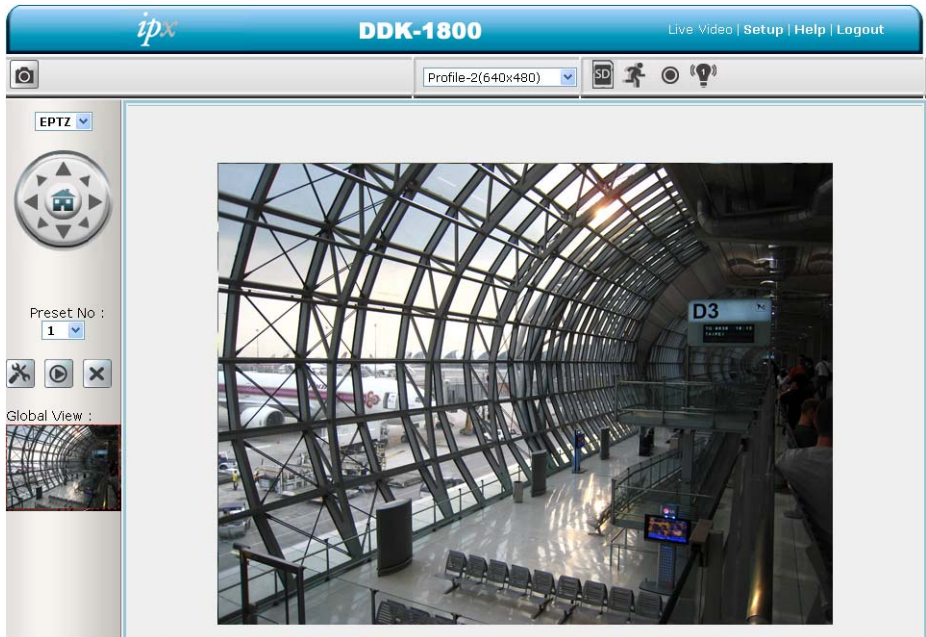
**NOTE:** Once authenticated, the login page will not appear again unless you close and reconnect.












### 4.1.2 Live Video

Live video from the DDK-1800D is displayed on the home page when your Camera is present in your browser. Additional settings are provided on the home page. AJAX (default) and the ActiveX viewer types display different formats on the home page.

**The AJAX viewer: Non-IE browsers support (for the JPEG mode only).**













- Snapshot: Click the  button to take a snapshot. The icon will change to a blue color  while working effectively.
- Click Profile-1(640x480) to change the video resolution and quality.  SD card icon: When a SD card is inserted, the icon becomes red .
-  Motion-on icon: When motion detection is configured the icon will appear in the right upper corner. When motion detection is triggered the icon will blink red .
-  Recording Status icon: This icon appears upper right corner. When recording the icon becomes red.
-  Alarm on-icon: Detects external alarms. When an alarm is triggered the icon will blink red .





### ActiveX viewer:

Select from the thumbnail options for taking snapshots, setting-up a Storage Folder, selecting Full Screen mode, Recording, Listening, Talking and Zooming.



- Snapshot: Click the  button to take a snapshot. The icon will change to a blue color  when working properly.
- Set Storage Path: Click on the  button to set a storage folder for saving snapshots and video clips.
- Full Screen: Click the  button to enter full screen mode. The icon will change to a blue color  when working properly.
- Record Button: Click the  button to record a video clip. The icon will change to a blue color  when working properly.
- Audio Button: Click the  button to start/stop the audio-in function (listen/stop listening). The icon will change to a blue color  when working properly.
- Talk Button: Click the  button to start/stop audio out function (talk/stop talking). The

icon will change to a blue color  when working properly

- Digital output: Click the  button to start/stop digital output. The icon will change to a blue color  when working properly.
- EPTZ Digital Zoom mode. This mode utilizes the megapixel resolution of the DDK-1800D to simulate the functions of a mechanical PTZ camera. When the digital zoom mode is active, the image can be zoomed in and out.

Hold down the left key of your mouse and move to the desired location in the Global View area. As the mouse moves, the live view area shows the corresponding image until the border of the image appears.

- Live Video: Click to go back to the device's homepage.
- Setup: Click to proceed to the advanced settings.
- Logout: Click to Logout.

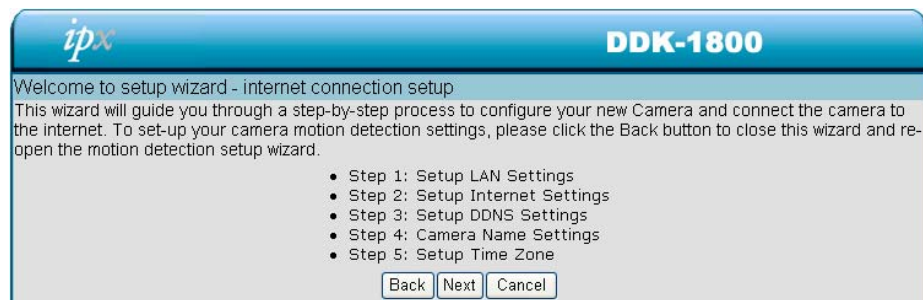
### 4.1.3 Setup

Click the **Setup** button on the home page to access advanced settings.

#### 4.1.3.1 Wizard

For quick configuration, click **Wizard** at the top of the Setup pages.

This wizard will guide you through a step-by-step process to configure your DDK-1800D.



The screenshot shows the 'Welcome to setup wizard - internet connection setup' screen for the DDK-1800. It includes a list of five steps: Step 1: Setup LAN Settings, Step 2: Setup Internet Settings, Step 3: Setup DDNS Settings, Step 4: Camera Name Settings, and Step 5: Setup Time Zone. At the bottom, there are 'Back', 'Next', and 'Cancel' buttons.

**ipx** **DDK-1800**

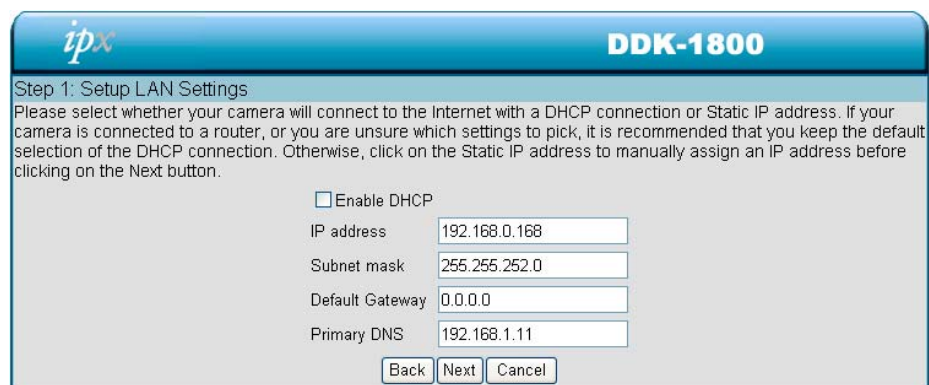
Welcome to setup wizard - internet connection setup

This wizard will guide you through a step-by-step process to configure your new Camera and connect the camera to the internet. To set-up your camera motion detection settings, please click the Back button to close this wizard and re-open the motion detection setup wizard.

- Step 1: Setup LAN Settings
- Step 2: Setup Internet Settings
- Step 3: Setup DDNS Settings
- Step 4: Camera Name Settings
- Step 5: Setup Time Zone

Click **Next** to continue.

#### Step 1:



The screenshot shows the 'Step 1: Setup LAN Settings' screen. It instructs the user to select between DHCP and Static IP. The DHCP option is currently selected. Below this, there are input fields for IP address (192.168.0.168), Subnet mask (255.255.252.0), Default Gateway (0.0.0.0), and Primary DNS (192.168.1.11). At the bottom, there are 'Back', 'Next', and 'Cancel' buttons.

**ipx** **DDK-1800**

Step 1: Setup LAN Settings

Please select whether your camera will connect to the Internet with a DHCP connection or Static IP address. If your camera is connected to a router, or you are unsure which settings to pick, it is recommended that you keep the default selection of the DHCP connection. Otherwise, click on the Static IP address to manually assign an IP address before clicking on the Next button.

☐ Enable DHCP

IP address

Subnet mask

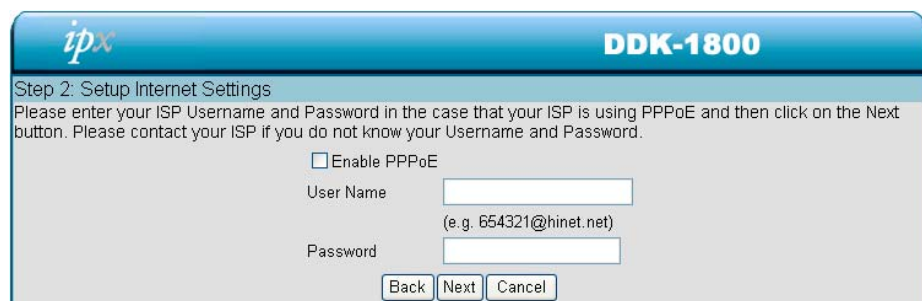
Default Gateway

Primary DNS

The DDK-1800D default setting is DHCP OFF. Users can build the DDK-1800D working environment with a static IP address. The DDK-1800D's default IP is 192.168.1.168. You can set an IP address for the DDK-1800D if the LAN unit isn't connected to a DHCP server. Or use DHCP protocol if DHCP is supported on your LAN. The DDK-1800D will obtain an IP address automatically from the DHCP server.

Click **Next** to continue.

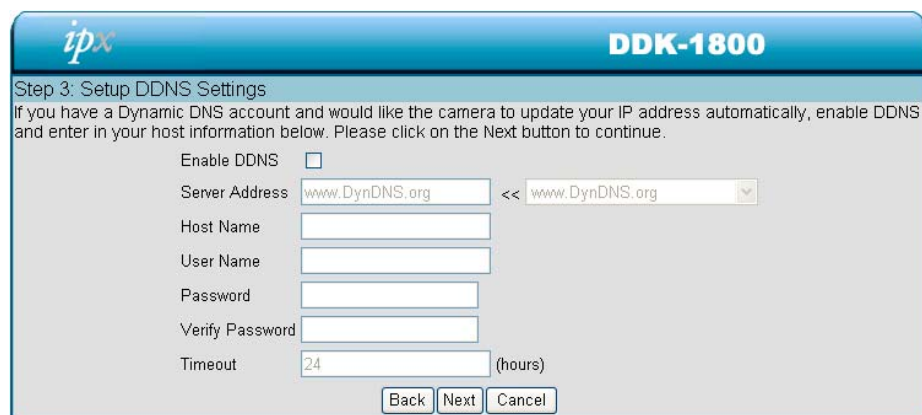
## Step 2:



The screenshot shows the 'Step 2: Setup Internet Settings' screen for the DDK-1800 device. The header has the 'ipx' logo on the left and 'DDK-1800' on the right. The main text reads: 'Please enter your ISP Username and Password in the case that your ISP is using PPPoE and then click on the Next button. Please contact your ISP if you do not know your Username and Password.' Below this, there is a checkbox labeled 'Enable PPPoE'. Underneath the checkbox are two text input fields: 'User Name' and 'Password'. A sample email address '(e.g. 654321@hinet.net)' is shown next to the User Name field. At the bottom right, there are three buttons: 'Back', 'Next', and 'Cancel'.

If using PPPoE, select Enable and enter user name and password. Otherwise select Disable and click **Next** to continue.

## Step 3:

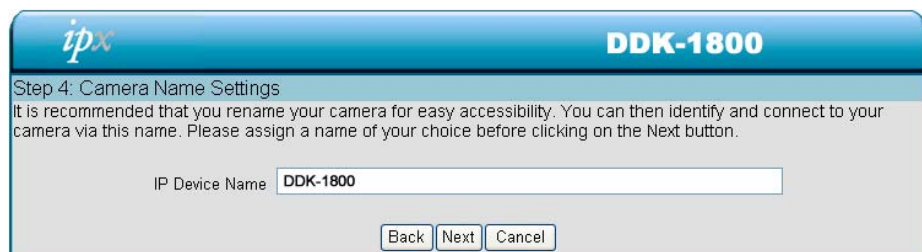


The screenshot shows the 'Step 3: Setup DDNS Settings' screen for the DDK-1800 device. The header has the 'ipx' logo on the left and 'DDK-1800' on the right. The main text reads: 'If you have a Dynamic DNS account and would like the camera to update your IP address automatically, enable DDNS and enter in your host information below. Please click on the Next button to continue.' Below this, there is a checkbox labeled 'Enable DDNS'. Underneath the checkbox are several fields: 'Server Address' (with 'www.DynDNS.org' entered), a dropdown menu (also showing 'www.DynDNS.org'), 'Host Name', 'User Name', 'Password', 'Verify Password', and 'Timeout' (with '24' entered and '(hours)' next to it). At the bottom right, there are three buttons: 'Back', 'Next', and 'Cancel'.

If using a Dynamic DNS account, select **Enable** and enter your host information.

Click **Next** to continue.

#### Step 4:



Enter a name for your DDK-1800D and click **Next** to continue.

#### Step5:



Select a time zone to ensure that all events will be triggered, captured and scheduled at the correct time. Click **Next** to continue.

#### Step 6:



If **DHCP** is selected, a summary of the DDK-1800D's settings will be displayed. Write down all this information as it is needed to access the camera over the network.

Click **Apply** to save settings.

#### 4.1.3.2 Changing Image Settings

Follow the steps below to change the cameras video settings. A preview of the image will be shown in the Live Video window. . Click **Submit** to activate and save changes.

- The Image Setup setting page

1. Click the **Image** button to enter the image-setting page.

ipx

DDK-1800

Live Video | Setup | Wizard | Help

Image

Network

System

Application

Storage

Status

Image

Audio and Video

Privacy Mask

Logout

IMAGE SETUP


VIEWER TYPE

Viewer Type

☐ AJAX

☒ ActiveX

IMAGE SETTINGS



Metering Method

Center-weighted

Exposure Mode

Indoor

Max Gain

24

dB

Denoise

0

Mirror

☐ On

☒ Off

Flip

☐ On

☒ Off

White Balance

Auto

Save

Brightness

128

Contrast

128

Saturation

128

Sharpness

128

Reset Default

DEVICE SETTING

Device Name

DDK-1800D

maximum 63 characters

☐ Enable OSD

Timestamp Label

maximum 63 characters

Timestamp Location

UPPER LEFT

Submit

2. **VIEWER TYPE.** Select “AJAX” or “ActiveX” mode.

3. **IMAGE SETTINGS.** Includes “Metering Method”, “Exposure Mode”, “Denoise”, “Mirror”,

“Flip”, “White Balance”, “Brightness”, “Contrast”, “Saturation” and “Sharpness”.

4. **DEVICE SETTINGS.** Includes “Device Name” and “Timestamp”.

- Click “**Enable OSD**” and checkmark the box to activate this function.
- Enter “Timestamp Label”.
- Enter “Timestamp Location”.

5. Click the **Submit** button to submit new image settings

**Functions:**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Metering Method</b> | <p>The metering method determines the exposure. Different metering methods measure the subject brightness differently.</p> <p><b>Center-weighted:</b> The metering is weighted at the center and then averaged for the entire scene.</p> <p><b>Spot:</b> This is for metering the central part of the entire scene.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Exposure Mode</b>   | <p>Exposure Mode controls a camera by shutter speed and the lens aperture.</p> <p><b>Indoor:</b> The optimum exposure setting is pre-programmed for the indoor environment. The default shutter time is 1/30~1/120 (1/25~1/100) and the maximum gain is 36 dB.</p> <p><b>Outdoor:</b> The optimum exposure setting is pre-programmed for the outdoor environment. The default shutter time is 1/30~1/750 (1/25~1/750) and the maximum gain is 36 dB.</p> <p><b>Night:</b> The optimum exposure setting is pre-programmed for the night environment. The default shutter time is 1/30~1/750 (1/25~1/500) and the maximum gain is 12 dB.</p> <p><b>Moving:</b> The optimum exposure setting is pre-programmed for moving subjects. The default shutter time is 1/120~1/1,000 (1/100~1/1,000) and the maximum gain is 36 dB.</p> <p><b>Low noise:</b> The optimum exposure setting is pre-programmed to reduce the noise. The default shutter time is 1/8~1/30 (1/7.5~1/25) and the maximum gain is 36 dB.</p> <p><b>Customize 1-3:</b> You can customize an exposure mode by adjusting individual parameters like Gain and Shutter.</p> <p><b>Schedule:</b> In the Schedule mode, you can set the customize schedule. Select a schedule and set the time period. You can assign one of the exposure modes to be the function mode of the Remaining time. Check and press to Save.</p> <p><b>Note:</b> The period of the schedule can't be set across midnight. For example, if you want to set a schedule of Night mode from 22:00 to 04:00, you have to (1) check a schedule and select the Night mode and set the period from 22:00 to 24:00, then (2) enable the next schedule and set it to Night mode and set the period from 00:00 to 04:00. Remember to click Save to activate.</p> |
| <b>Denoise</b>         | <p><b>Denoise</b> (noise reduction) is the process of removing noise from signals.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                            |                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mirror:</b>             | Reverses image display.                                                                                                             |
| <b>Flip:</b>               | To flip the DDK-1800D's image 180 degrees.                                                                                          |
| <b>White Balance</b>       | White balance corrects unnatural color shades. Select your options from "Auto", "Outdoor", "Indoor", "Fluorescent" and "Push Hold". |
| <b>Brightness:</b>         | Setting to compensate for backlighting.                                                                                             |
| <b>Contrast:</b>           | Controls color intensity/strength.                                                                                                  |
| <b>Saturation:</b>         | Controls the strength of colors from black and white to bold.                                                                       |
| <b>Sharpness</b>           | Sets clarity of detail in images.                                                                                                   |
| <b>Timestamp Label:</b>    | Enter the timestamp label.                                                                                                          |
| <b>Timestamp Location:</b> | Click to choose location.                                                                                                           |
| <b>Submit:</b>             | Click to save settings.                                                                                                             |

**NOTE: The default setting table of the exposure mode--**

| <b>NTSC</b>          |                |                 |
|----------------------|----------------|-----------------|
| <b>Exposure Mode</b> | <b>Shutter</b> | <b>Max Gain</b> |
| Indoor               | 1/30~1/120     | 36 dB           |
| Outdoor              | 1/30~1/750     | 36 dB           |
| Night                | 1/30~1/500     | 12 dB           |
| Moving               | 1/120~1/1,000  | 36 dB           |
| Low noise            | 1/8~1/30       | 36 dB           |
| <b>PAL</b>           |                |                 |
| <b>Exposure Mode</b> | <b>Shutter</b> | <b>Max Gain</b> |
| Indoor               | 1/25~1/100     | 36 dB           |
| Outdoor              | 1/25~1/750     | 36 dB           |
| Night                | 1/25~1/500     | 12 dB           |
| Moving               | 1/100~1/1,000  | 36 dB           |
| Low noise            | 1/7.5~1/25     | 36 dB           |



- The Audio and Video setting page

1. Click on the **Audio and Video** button to enter the Audio and Video settings page. Here you may configure multiple video profiles with different settings. Click **Submit** to save your changes.

**DDK-1800** Live Video | Setup | Wizard | Help

Image Network System Application Storage Status

**AUDIO AND VIDEO**

**VIDEO SETTINGS**

Profile number: 2

Aspect ratio: 4:3

**Warning: Change the aspect ratio will clear the settings of privacy mask.**

Save Default

**VIDEO PROFILE 1**

Mode: H.264

Frame size: 2048x1536

Viewer window area: 2048x1536

Intra Frame Period: 30

Maximum frame rate: 30

Video quality:

Constant bit rate: 2M

Fixed quality: Medium

**VIDEO PROFILE 2**

Mode: JPEG

Frame size: 640x480

Viewer window area: 640x480

Maximum frame rate: 30

Video quality: Medium

**AUDIO SETTINGS**

Encoding: G.711

☒ Audio Mechanism Setting

☒ Audio Mic Gain: 20dB

☐ Line IN: 0dB

☒ Enable audio out

Audio out volume level: 10

**POWER LINE**

☒ 60 Hz ☐ 50 Hz

Submit

2. Select the Profile Number from 1-3. Then set the Aspect ratio of 4:3 or 16:9. Click Save to activate it.
3. Set the "Mode", "Frame size", "Viewer window area", "Maximum frame rate" and "Video quality" of each Video Profile.

4. Set the details of the audio functions.
5. Select 50 Hz or 60Hz Power.
6. Click on the **Submit** button to save settings.





#### Functions:

|                                 |                                                                                                                                                                                                                                                                                                              |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Profile Number</b>           | Select the Profile Number from 1-3 and the default video profile number is 2.                                                                                                                                                                                                                                |
| <b>Aspect ratio</b>             | The aspect ratio of an image is the ratio of the width of the image to its height. Select 4:3 or 16:9 of the ratio that best suits your needs.                                                                                                                                                               |
| <b>Mode:</b>                    | Choose the video format from H.264, JPEG or MPEG4 compression.                                                                                                                                                                                                                                               |
| <b>Frame size:</b>              | This option allows the user to choose the video resolution of the camera:<br>4:3 - "2048x1536" (H.264 & MJPEG only), "1600x1200", "1024x768", "800x600", "640x480", "480x360", "320x240" and "176x144".<br>16:9 - "1920x1080", "1280x720", "800x450", "640x360", "480x270", "320x176" and "176x144".         |
| <b>Viewer window area:</b>      | This option allows the user to choose the video resolution of the live view area:<br>4:3 - "2048x1536" (H.264 & MJPEG only), "1600x1200", "1024x768", "800x600", "640x480", "480x360", "320x240" and "176x144".<br>16:9 - "1920x1080", "1280x720", "800x450", "640x360", "480x270", "320x176" and "176x144". |
| <b>Intra Frame Period:</b>      | Setting for compression frequency between frames.                                                                                                                                                                                                                                                            |
| <b>Maximum frame rate:</b>      | Sets number of frames per second.                                                                                                                                                                                                                                                                            |
| <b>Video quality:</b>           | Sets video stream to constant bit rate or constant quality.                                                                                                                                                                                                                                                  |
| <b>Audio Settings:</b>          | Switches microphone on/off and adjusts volume.                                                                                                                                                                                                                                                               |
| <b>Encoding:</b>                | Setting for type of audio encoding.                                                                                                                                                                                                                                                                          |
| <b>Audio Mechanism Setting:</b> | Check to activate this function and select MIC or Line In.<br>The resistance value of the MIC is 2 kΩ.<br>The resistance value of the Line In is 10 kΩ.<br><b>NOTE: The option of 26dB is for long-distance audio receiving, normally longer than 3 meters.</b>                                              |
| <b>Enable audio out:</b>        | Check to activate this function and set the Audio out volume level.                                                                                                                                                                                                                                          |
| <b>Power Line</b>               | Select 50 Hz or 60Hz.                                                                                                                                                                                                                                                                                        |

**NOTE:**

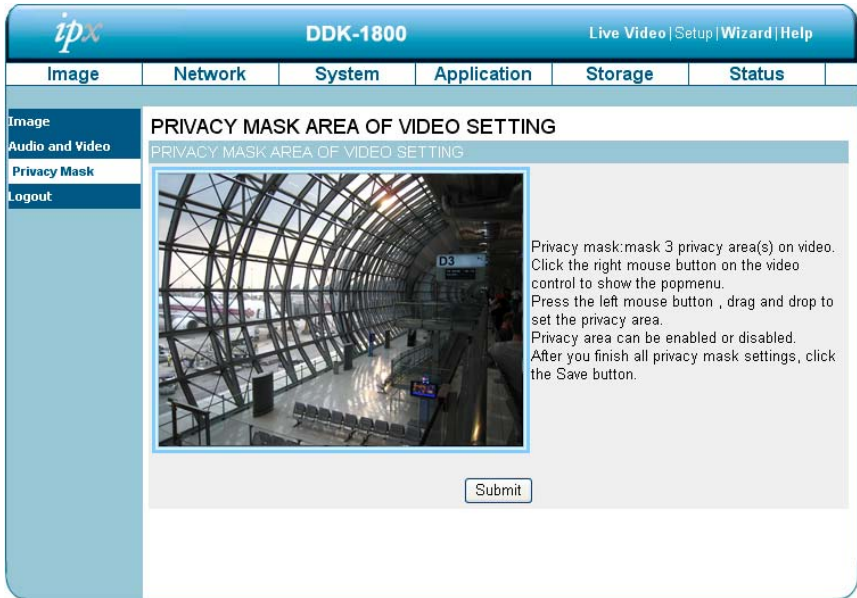
**Audio In/Out:**

Follow the steps.

1. Connect DDK-1800D through browser.
2. Ensure “Audio Mechanism Setting” & “Enable audio out” are both selected. Click Submit.
3. Connect Mic to the PC, and connect the DDK-1800D Audio out to the speaker.
4. Select “Talk”  →  ; speak to the PC-connected microphone.
5. Confirm audio from connected speaker.
6. Connect Mic to DDK-1800D--Audio in; connect speaker to PC--AUDIO Out.
7. Click “Listen” in the webpage  →  ; the Mic will send an audio signal to the DDK-1800D.
8. Confirm audio from PC speaker.

- [The Privacy Mask settings page](#)

Click on the **Privacy Mask** button to enter the Privacy Mask Area setting page. Mask up to 3 privacy areas on the displayed video to specify the areas on the DDK-1800D's image to be blocked/excluded from recordings and snapshots.



1. Use the right mouse button on video control to show the pop-menu.
2. Use the left mouse button and drag and drop to set the privacy area.
3. A privacy area can be enabled or disabled.
4. Click the Submit button.

4.1.3.3 Changing the Network Settings

Follow the steps below to change the network settings. Set network options and IP address.

- 1. Click on the **Network** button on the home page to enter the Network Setup page.

ipx

DDK-1800

Live Video | Setup | Wizard | Help

Image

Network

System

Application

Storage

Status

Network

PPPoE

Port Detail

Traffic

Dynamic DNS

HTTPS

Access List

Logout

NETWORK SETUP

LAN SETTINGS

☐ Enable DHCP

IP address

192.168.1.168

Subnet mask

255.255.252.0

Default Gateway

0.0.0.0

Primary DNS

192.168.1.11

☒ Enable UPnP presentation

☐ Enable UPnP port forwarding

Forwarding Port

1024

Test

Forwarding Status

UPnP : Forwarding is inactive

Submit

- 2. The accessible network protocols are "PPPoE", "Port Detail", "Traffic", "Dynamic DNS", "HTTPS" and "Access List".
- 3. Input your network setting details. Click the **Submit** button to save settings.

Functions:

|                              |                                                                                                                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DHCP:                        | Enables DHCP for dynamic IP address assignment.                                                                                                                                   |
| DNS                          | (The Domain Name System) is an Internet service that translates domain names into IP addresses (e.g., 192.168.0.20). An address can be obtained from your ISP or network gateway. |
| Enable UPnP Presentation:    | Enable this setting to allow your DDK-1800D to be configured as a UPnP device on your network.                                                                                    |
| Enable UPnP port forwarding: | Enable this setting to allow the DDK-1800D to add port forwarding entries into your router automatically.                                                                         |

● Changing the PPPoE Network Setting.

The Network page has a PPPoE icon the upper left. Follow the steps below to change the PPPoE setting.

1. Click the **PPPoE** button on the upper left menu to enter the “PPPoE Settings” page.

The screenshot shows the DDK-1800 web interface. The top bar includes the 'ipx' logo, the model 'DDK-1800', and links for 'Live Video', 'Setup', 'Wizard', and 'Help'. A horizontal menu below the top bar has tabs for 'Image', 'Network', 'System', 'Application', 'Storage', and 'Status'. The 'Network' tab is selected, and within it, the 'PPPoE' option is highlighted. A sidebar on the left lists various network settings: 'Network', 'PPPoE', 'Port Detail', 'Traffic', 'Dynamic DNS', 'HTTPS', 'Access List', and 'Logout'. The main panel displays the 'PPPoE SETTINGS' form. It starts with two radio buttons: 'Enable' and 'Disable', with 'Disable' being the selected option. Below these are three text input fields labeled 'User Name', 'Password', and 'Confirm password'. The 'Status' field is set to 'Inactive'. A 'Submit' button is located at the bottom right of the form area.

2. Activate the “Enable” or “Disable” status of the PPPoE Settings.
3. Enter the PPPoE “Username” and the PPPoE “Password” then confirm the password again.
4. Click on the **Submit** button to save the setting.

**NOTE: Please refer to section 4.1.3.8 (PPPoE & DDNS) for more details.**

**Functions:**

|                      |                                                                                                                                                                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PPPoE Setting</b> | If you use the DDK-1800D to connect directly to the Internet, you will need to enter the username and password which were given to you when you set up your account with your Internet Service Provider. If the DDK-1800D is behind a router or a gateway you do not need to configure this setting. |
| <b>Username:</b>     | Enter Username here                                                                                                                                                                                                                                                                                  |
| <b>Password:</b>     | Enter Password here                                                                                                                                                                                                                                                                                  |

● Changing the Network Settings — Port Detail.

The “Network” page has a “Port Detail” icon at the upper left. This allows you to specify and reserve ports for both HTTP and RSTP streaming. Follow the steps below to change the Port Detail settings.

1. Click on the **Port Detail** button on the upper left menu to enter the “Port Detail” page.

The screenshot shows the DDK-1800 web interface. At the top, there is a blue header bar with the 'ipx' logo on the left, 'DDK-1800' in the center, and 'Live Video | Setup | Wizard | Help' on the right. Below the header is a navigation menu with tabs: 'Image', 'Network', 'System', 'Application', 'Storage', and 'Status'. The 'Network' tab is selected. On the left side of the 'Network' tab, there is a vertical menu with options: 'Network', 'PPPoE', 'Port Detail' (which is highlighted), 'Traffic', 'Dynamic DNS', 'HTTPS', 'Access List', and 'Logout'. The main content area is titled 'PORT DETAIL'. It is divided into three sections: 'HTTP', 'HTTPS', and 'RTSP'. The 'HTTP' section has a text label 'HTTP port' followed by a text input field containing the value '80'. The 'HTTPS' section has a text label 'HTTPS port' followed by a text input field containing the value '443'. The 'RTSP' section has a text label 'RTSP port' followed by a text input field containing the value '554'. Below the 'RTSP' section, there are two text labels: 'Access name for stream1' and 'Access name for stream2', each followed by a text input field. The first field contains 'video1.mjpg' and the second contains 'video2.mjpg'. At the bottom right of the form, there is a 'Submit' button.

2. Enter the “HTTP port” and the “Access name for stream” for the MJPEG streams.
3. Enter the “HTTPS port”. The default value is 443.
4. Enter the “RSTP port” and the “Access name for stream” for the MJPEG or JPEG streams.
5. Click the **Submit** button to save the new settings.

**NOTE:** To use an RTSP player to access the DDK-1800D, use the following RTSP URL command to request transmission of the streaming data.

## Functions

|                   |                                                                                                                                                                                                                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HTTP Port</b>  | HTTP ports allow you to connect to the DDK-1800D via a standard web browser. This port can be set to a number other than the default HTTP port 80. A corresponding port must be opened on the router. For example, if the port is changed to 8080, users must type in the web browser 'http://192.168.0.100:8080' |
| <b>HTTPS Port</b> | The HTTPS Port connects the DDK-1800D with a PC via a secure web browser.                                                                                                                                                                                                                                         |
| <b>RTSP Port</b>  | This port number is used for RTSP streaming to mobile devices, such as mobile phones or PDAs. You may specify the address of a particular stream. For example, live1.sdp can be accessed at rtsp://x.x.x.x/video1.sdp where the x.x.x.x represents the IP address of your DDK-1800D.                              |

**NOTE: To view the MPEG4 streaming media Players that support RTSP streaming, such as Quick Time Player, Real Player, can be used to view the MPEG4 streaming media.**

- (1) Launch the RTSP player.
- (2) Choose "File", and an "Open URL" dialog box will pop up.
- (3) Enter an Internet URL to open. The address format is rtsp://<ip address>:<rtsp port>/<RTSP streaming access name for stream1, stream2 or stream3>
- (4) The live video will be displayed in your player.



- Changing the Network Settings —Network Traffic.

The “Network” page has a “Traffic” icon at the upper left. Specifying the maximum download/upload bandwidth for each socket is useful when connecting your device to a busy or heavily loaded network. Please follow the steps below to change the setting through the network.

1. Click on the **Traffic** button on the upper left menu to enter the “Traffic” page.

2. Enter the “Maximum Upload Bandwidth” and the “Maximum Download Bandwidth”.
3. Click on the **Submit** button to save the new settings.

#### Description of function keys:

|                                    |                                    |
|------------------------------------|------------------------------------|
| <b>Maximum Upload Bandwidth:</b>   | Enter in a range from 0 to 102400. |
| <b>Maximum Download Bandwidth:</b> | Enter in a range from 0 to 102400. |
| <b>Submit:</b>                     | Click to save settings.            |

● Changing the Network Settings — DDNS.

The DDNS (Dynamic Domain Name Server) will use a DNS host name and synchronize it with the public IP address of the router when it changes. A user name and password are required when using a DDNS service. On the “Network” page click the “DDNS” icon at the upper left of page and follow the steps below to change the DDNS settings.

1. Click on the **Dynamic DNS** button on the upper left menu to enter the “Dynamic DNS” page.

The screenshot shows the web interface of a DDK-1800 router. At the top, there's a blue header with the 'ipx' logo, the model 'DDK-1800', and links for 'Live Video', 'Setup', 'Wizard', and 'Help'. Below the header is a navigation bar with tabs: 'Image', 'Network', 'System', 'Application', 'Storage', and 'Status'. The 'Network' tab is selected. On the left side of the 'Network' tab, there's a vertical menu with options: 'Network', 'PPPoE', 'Port Detail', 'Traffic', 'Dynamic DNS' (which is highlighted), 'HTTPS', 'Access List', and 'Logout'. The main content area is titled 'DYNAMIC DNS' and contains a 'DYNAMIC DNS SETTING' section. This section includes a checkbox for 'Enable DDNS' (which is currently unchecked), a 'Server Address' field with 'www.DynDNS.org' and a dropdown menu, a 'Host Name' field, a 'User Name' field, a 'Password' field, a 'Verify Password' field, a 'Timeout' field with '24' and '(hours)', and a 'Status' field showing 'Inactive'. A 'Submit' button is located at the bottom right of the settings area.

2. Check the “Enable DDNS” box to activate this function.
3. Fill in the dynamic “Server Address”, “Host Name”, “User Name”, “Password”, “Verify Password”, “Timeout”, “IP Address” and “Email Address”.
4. Click the **Submit** button to save the settings.

**NOTE:** Please refer to section 4.1.3.8 (PPPoE & DDNS) for more details.

## Functions

|                              |                                                                                                                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Enable DDNS Function:</b> | Check to activate this function.                                                                                                                                                  |
| <b>DNS</b>                   | (The Domain Name System) is an Internet service that translates domain names into IP addresses (i.e. 192.168.0.20). The address can be obtained from your ISP or network gateway. |
| <b>Server Address:</b>       | Select your Dynamic DNS provider from the pull down menu or enter the server address manually.                                                                                    |
| <b>Host Name:</b>            | Enter the host name of the DDNS server.                                                                                                                                           |
| <b>User name:</b>            | Enter your user name or e-mail used to connect to the DDNS                                                                                                                        |
| <b>Password:</b>             | Enter your password used to connect to the DDNS server.                                                                                                                           |
| <b>Verify Password</b>       | Enter your password again to connect to the DDNS server.                                                                                                                          |
| <b>Timeout:</b>              | Enter the DNS Timeout values for registering the IP address.                                                                                                                      |
| <b>Status:</b>               | Indicate the connection status, automatically determined by the system.                                                                                                           |

- Changing the Network Settings — HTTPS.

Click the “HTTPS” icon at the upper left of the “Network” page. Follow the steps below to change the HTTPS setting.

1. Click on the **HTTPS** button on the upper left menu to enter the “HTTPS Setting” page.

The screenshot shows the DDK-1800 web interface. The top header is blue with the 'ipx' logo on the left, 'DDK-1800' in the center, and links for 'Live Video', 'Setup', 'Wizard', and 'Help' on the right. Below the header is a navigation bar with tabs: 'Image', 'Network', 'System', 'Application', 'Storage', and 'Status'. The 'Network' tab is selected. On the left side of the 'Network' tab, there is a vertical menu with options: 'Network', 'PPPoE', 'Port Detail', 'Traffic', 'Dynamic DNS', 'HTTPS' (highlighted), 'Access List', and 'Logout'. The main content area is titled 'HTTPS'. It contains a section 'HTTPS' with a checkbox 'Enable secure HTTPS connection'. Below this is a 'Create certificate settings' section with three radio buttons: 'Create self-signed certificate automatically' (selected), 'Create self-signed certificate manually', and 'Create certificate request and install'. There is a 'Create certificate:' label and a 'Create' button. Below this is a 'CERTIFICATE INFORMATION' section showing 'Status' as 'No installed'. At the bottom of this section are three buttons: 'CSR Property', 'Certificate Property', and 'Remove'. A 'Submit' button is at the very bottom of the form.

2. Select the “Enable HTTPS secure connection” to activate this function.
3. Click to select the “Create certificate method” from “Create self-signed certificate automatically”, “Create self-signed certificate manually” and “Create certificate request and install”.
4. Click “Create” to save the create certificate settings.
5. The Certification Information will show below.
6. Click “CSR Property” to see the Certificate Signing Request information.
7. Click “Certificate Property” to see the Certificate information.
8. Click “Remove” to remove the created certificate.
9. Click on the **Submit** button to submit the new setting.

**NOTE:** The certificate cannot be removed while the HTTPS is still enabled. To remove the certificate you must first uncheck Enable HTTPS secure connection.

## **Methods of creating and installing certificates:**

### **1. Create self-signed certificate automatically**

- (1) Enable HTTPS secure connection.
- (2) Select the "Create self-signed certificate automatically" option.
- (3) Click the Create button.
- (4) The new Certification Information will show in the third column on the HTTPS setting page.
- (5) Click Home to return to the main page. Change the address from "http://" to "https://" in the address bar and press Enter on your keyboard. Some Security Alert dialogs will pop up. Click OK or Yes to enable HTTPS.

### **2. Create self-signed certificate manually**

- (1) Enable HTTPS secure connection.
- (2) Click "Create self-signed certificate manually" to open the Create certificate column.
- (3) Click the Create button.
- (4) The new Certification Information will show in the third column on the HTTPS setting page.

### **3. Create certificate request and install**

- (1) Enable HTTPS secure connection.
- (2) Click "Create self-signed certificate automatically" to open the Create certificate column.
- (3) Click the Create button.
- (4) If you see an Information bar, click OK and click on the Information bar at the top of the page to allow pop-ups.
- (5) The pop-up windows will show a certificate request.
- (6) Look for a trusted certificate authority that issues digital certificates. Enroll the DDK-1800D. Wait for the certificate authority to issue a SSL certificate; click "Browse..." to search for the issued certificate and then click "Upload" on the Create certificate column.
- (7) The new Certification Information will show in the third column on the HTTPS setting page.

● Changing the Network Settings —Access List.

On the “Network” page atthe upper left is the “Access List” icon. Follow the steps below to change the Access List settings.

1. Click on the **Access List** button on the upper left menu to enter the “Access List” page.

The screenshot shows the DDK-1800 web interface. The top navigation bar includes 'Image', 'Network', 'System', 'Application', 'Storage', and 'Status'. The left sidebar menu has 'Access List' selected. The main area displays the 'ACCESS LIST' configuration with 'ALLOW LIST' and 'DENY LIST' sections, each containing input fields for IP addresses and a delete list dropdown, along with 'Add' and 'Delete' buttons.

2. Enter the “Start IP address”, “End IP address” and “Delete allow list” details in the “Allow List” area.  
Select “Add” to add or “Delete” to delete entries.
3. Enter the “Start IP address”, “End IP address” and “Delete deny list” details in the “Deny List” area.  
Select “Add” to add or “Delete” to delete entries.
4. Click the **Submit** button to submit new settings.

**Functions**

| Allow List:       |                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------|
| Start IP Address  | The starting IP Address of the devices (such as a computer) which have permission to access the DDK-1800D. |
| End IP Address    | The ending IP Address of the devices (such as a computer) which have permission to access the DDK-1800D.   |
| Delete Allow List | Removes the customized settings from the Permission List.                                                  |

|                         |                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Deny List:</b>       |                                                                                                                  |
| <b>Start IP Address</b> | The starting IP Address of the devices (such as a computer) which don't have permission to access the DDK-1800D. |
| <b>End IP Address</b>   | The ending IP Address of the devices (such as a computer) which don't have permission to access the DDK-1800D.   |
| <b>Delete Deny List</b> | Removes the customized settings from the Permission List.                                                        |

**NOTE:** If there are conflicts between the range of the Allow List and the range of the Deny List, the Access List within the range of the Deny List has the higher priority over the range of the Allow List.

4.1.3.4 Changing the System Settings

Follow the steps below to change the system date and time settings.

- Setting the Time and Date of the system

1. Click on the **System** button to enter the “Time and Date” page (default). In this area you may automatically or manually configure, update, and maintain the internal system clock of the DDK-1800D.

The screenshot shows the 'System' tab of the DDK-1800 web interface. The left sidebar contains a menu with 'Time and Date' selected. The main content area is titled 'TIME AND DATE' and is divided into three sections: 'TIME CONFIGURATION', 'AUTOMATIC TIME CONFIGURATION', and 'SET DATE AND TIME MANUALLY'. In the 'TIME CONFIGURATION' section, 'Time Zone' is set to '(GMT-05:00) Bogota, Lima, Quito, Rio Branco' and 'Time Format' is 'DD/MM/YYYY'. There are checkboxes for 'Enable Daylight Saving' (unchecked) and 'Auto Daylight Saving' (selected). Below these are fields for 'Offset' (+2:00) and a table for 'Start time' and 'End time' with dropdowns for Month, Week, Day of week, Hour, and Minutes. The 'AUTOMATIC TIME CONFIGURATION' section has a checkbox for 'Synchronize with NTP Server' (unchecked) and a text field for 'NTP Server' (pool.ntp.org). The 'SET DATE AND TIME MANUALLY' section has a checkbox for 'Set date and time manually' (unchecked) and a button for 'Copy Your Computer's Time Settings'. Below this are dropdown menus for Year (2011), Month (5), Day (23), Hour (1), Minute (1), and Second (14). A 'Submit' button is at the bottom right.

2. To set the Time Configuration select a time zone from the drop-down menu. Select Enable Daylight Saving Time if required. Then select "Auto Daylight Saving" or "Set date and time manually".
3. To set the Automatic Time Configuration select "Synchronize with NTP Server" and enter the address of the NTP Server.
4. To set the Date and Time manually select "Set date and time manually" and then select "Copy Your Computer's Time Settings" or manually set the date and time from the drop-down menus.
5. Click the **Submit** button to save the Date and Time settings.



**Functions:**

|                                            |                                                                                                                          |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Time Zone:</b>                          | Select time zone from the drop-down menu.                                                                                |
| <b>Enable Daylight Saving:</b>             | Select to enable daylight saving time.                                                                                   |
| <b>Auto Daylight Saving:</b>               | Select this option to configure Daylight Saving setting automatically.                                                   |
| <b>Set date and time manually:</b>         | Select this option to configure Daylight Saving date and time manually.                                                  |
| <b>Offset:</b>                             | Sets the amount of time to be added or removed when Daylight Saving is enabled.                                          |
| <b>Synchronize with NTP server:</b>        | Enable this feature to obtain time configuration automatically from the NTP server.                                      |
| <b>NTP Server:</b>                         | The Network Time Protocol (NTP) synchronizes the device with an Internet time server. Choose one close to your location. |
| <b>Set the date and time manually:</b>     | Allows for setting time and date manually.                                                                               |
| <b>Copy Your Computer's Time Settings:</b> | Will synchronize time information from Computer.                                                                         |

- Changing the System Settings — Digital Input & Output.

1. Click on the **DI and DO** button on the left side of the “System” page to enter the “DI and DO” page.

The screenshot shows the 'DI AND DO' configuration page. The left sidebar menu has 'DI and DO' selected. The main area shows the following settings:

- Digital Input 1:** The active state is **N.O.**; the current state detected is **Open**.
- Digital Output 1:** The active state is **N.O.**
- LED:** ☒ On ☐ Off
- VIDEO OUTPUT:** ☒ On ☐ Off
- OSD OUTPUT:** ☒ On ☐ Off

A **Submit** button is located at the bottom right of the settings area.

2. Select the active state of the Digital Input 1 from the drop-down list.
3. Select the active state of the Digital Output 1 from the drop-down list.
4. Click to set the LED “On” or “Off”.
5. Select “ON” or “OFF” to enable or disable video output. Select “ON” or “OFF” to enable or disable OSD output.
6. Click the **Submit** button to submit the new user’s settings.

**Functions:**

|                        |                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Digital Input:</b>  | Select “N.O.” or “N.C.” as the active state of the Digital Input, in order to use the GPIO connector function.  |
| <b>Digital Output:</b> | Select “N.O.” or “N.C.” as the active state of the Digital Output, in order to use the GPIO connector function. |
| <b>LED</b>             | Select “ON” or “OFF” to turn this function on and off.                                                          |
| <b>VIDEO OUTPUT</b>    | Select “ON” or “OFF” to enable or disable video output.                                                         |
| <b>OSD OUTPUT</b>      | Select “ON” or “OFF” to enable or disable OSD output.                                                           |

● Changing the System Settings — ICR.

Follow the steps below to change the IR cut filter function settings.

1. Click on the **ICR** button on the left side of the “System” page to enter the “ICR” page.

The screenshot shows the web interface for the DDK-1800 camera. At the top, there's a blue header with the 'ipx' logo, 'DDK-1800', and links for 'Live Video', 'Setup', 'Wizard', and 'Help'. Below the header is a navigation bar with tabs: 'Image', 'Network', 'System', 'Application', 'Storage', and 'Status'. The 'System' tab is selected. On the left side of the 'System' page is a vertical menu with options: 'Time and Date', 'DI and DO', 'ICR', 'User', 'Maintenance', 'Upgrade Firmware', and 'Logout'. The 'ICR' option is highlighted. The main content area is titled 'ICR' and contains two sections. The first section, 'ICR', has the label 'IR \_ Cut Removable filters triggering condition:' and four radio button options: 'Automatic' (selected), 'Day mode', 'Night mode', and 'Schedule mode'. Below these is a 'Day mode(24hr)' section with 'From' and 'To' time pickers set to 07:00 and 18:00 respectively. The second section, 'IR LIGHT', has the label 'IR LIGHT' and four radio button options: 'Off', 'On', 'Sync. With ICR' (selected), and 'Schedule'. Below these is an 'IR Light On(24hr)' section with 'From' and 'To' time pickers set to 07:00 and 18:00 respectively. A 'Submit' button is located at the bottom right of the form.

2. Select option for “IR-Cut Removable filter trigger condition”: “Automatic”, “Day Mode”, “Night Mode” or “Schedule”.
3. Select IR light power “Off”, “On”, “Sync, with ICR” or “Schedule”.
4. Click the **Submit** button to save the new settings.

**Functions:**

|                      |                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Automatic</b>     | Day/Night mode will change automatically depending on lighting conditions.                                  |
| <b>Day mode</b>      | Day mode disables the IR Cut Filter.                                                                        |
| <b>Night mode</b>    | Night mode enables the IR Cut Filter.                                                                       |
| <b>Schedule mode</b> | Sets the Day/Night mode using a schedule. Starting time begins Day mode end time returns to the Night mode. |

● Changing the System Settings — Users.

1. Click the **Users** button on the left side of the “System” page to enter the “Users” page.

The screenshot shows the DDK-1800 Users management interface. The header includes the ipx logo, the device name DDK-1800, and links for Live Video, Setup, Wizard, and Help. The navigation bar has tabs for Image, Network, System (selected), Application, Storage, and Status. The sidebar menu lists various system settings, with 'User' selected. The main content area is titled 'USER' and contains two sections. The top section, 'USER LIST', displays a table with one user entry: 'root:Admin'. To the right of this entry is a 'Delete User' button. The bottom section, 'ADD/MODIFY USER', contains form fields for 'User Name', 'Password', and 'Confirm', each with a text input box. Below these is an 'Authority' section with three radio buttons: 'Admin' (selected), 'Operator', and 'Viewer'. At the bottom right of this section is an 'Add/Modify User' button.

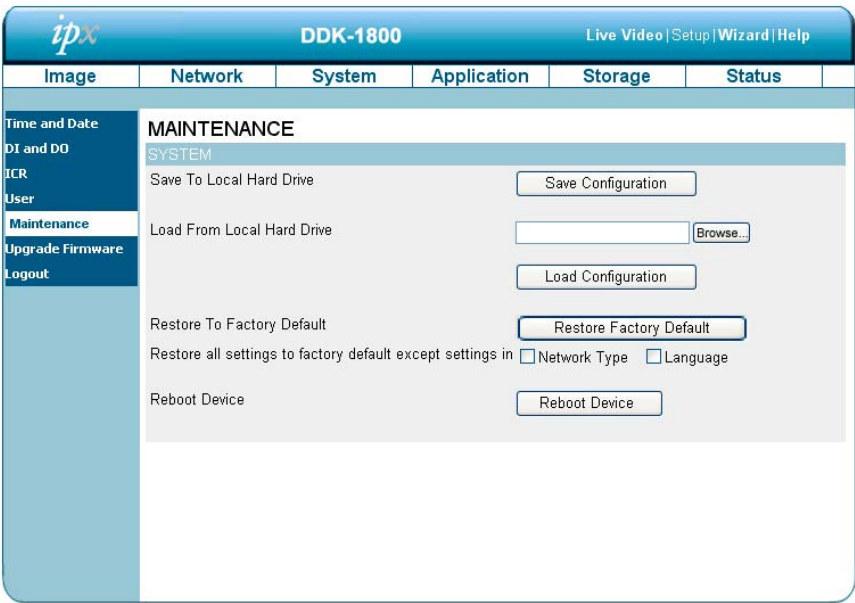
2. Add, modify or delete a user's data.  
3. Click **Add/ Modify User** button to save new user settings.  
4. Click the **Home** button to return to the home page.

**Functions:**

|                          |                                                                          |
|--------------------------|--------------------------------------------------------------------------|
| <b>User List:</b>        | The list shows the registered user(s) and their corresponding authority. |
| <b>Delete:</b>           | Deletes a selected user.                                                 |
| <b>Name:</b>             | Enter user's name to be added.                                           |
| <b>Password:</b>         | Enter the new password for the user's name.                              |
| <b>Confirm:</b>          | Enter the password again for verification.                               |
| <b>Authority:</b>        | Choose user authority: Admin, Operator, and Viewer.                      |
| <b>Add/ Modify User:</b> | Click to save new settings.                                              |

● Changing the System Settings — Maintenance.

Click the **Maintenance** button on the left side of the “Date and Time” page to enter “Maintenance” page.



**Functions:**

|                                  |                                                                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Save Configuration:</b>       | Click “Save Configuration” to save the configuration files to local hard drive.                                                           |
| <b>Load Configuration:</b>       | Browse and click on “Load Configuration” to load configuration files to the local hard drive.                                             |
| <b>Restore Factory Defaults:</b> | Click “Restore Factory Defaults” to restore factory defaults. You may browse and load saved configuration files to restore saved settings |
| <b>Reboot Device:</b>            | Click “Reboot Device” to reboot the device. This option will restart the DDK-1800D.                                                       |

- Changing the System Settings — Update Firmware.

1. Click the **Firmware Upgrade** button on left side of “Date and Time” page to enter the “Firmware Upgrade” page.

The screenshot shows the web interface for the DDK-1800 device. The top header bar is blue with the 'ipx' logo on the left, 'DDK-1800' in the center, and 'Live Video | Setup | Wizard | Help' on the right. Below the header is a navigation menu with tabs: 'Image', 'Network', 'System', 'Application', 'Storage', and 'Status'. The 'System' tab is selected. On the left side of the 'System' tab, there is a vertical menu with options: 'Time and Date', 'D1 and D0', 'ICR', 'User', 'Maintenance', 'Upgrade Firmware', and 'Logout'. The 'Upgrade Firmware' option is highlighted. The main content area is titled 'UPGRADE FIRMWARE'. It contains a section 'FIRMWARE INFORMATION' with the following details: 'Current Firmware Version: 0.06' and 'Current Product Name: DDK-1800D'. Below this is another section titled 'UPGRADE FIRMWARE' which contains a 'File Path:' label, a text input field, a 'Browse...' button, and an 'Upload' button.

2. Click the “Browse...” button to find and select the UPDATE.BIN file which was saved to computer
3. Click the “Upload” button.

**NOTE: DO NOT power off DDK-1800D while updating firmware.**

**NOTE: Don't interrupt the process while the unit is updating.**

**NOTE: Updating with the wrong UPDATE.BIN file may cause physical damage to the device.**

**NOTE: The Temporary Internet Files (or cache) folder contains Web page content that is stored in your hard disk for quick viewing. We suggest deleting the Temporary Internet Files immediately after updating firmware.**

4.1.3.5 Changing the Application Settings

- Changing the Application Settings —Language Setting.

1. Click on the **Language** button on the left side to enter the “Language Settings” page.

The screenshot shows the DDK-1800 web interface. At the top, there is a blue header bar with the 'ipx' logo on the left, 'DDK-1800' in the center, and 'Live Video | Setup | Wizard | Help' on the right. Below the header is a navigation bar with tabs: 'Image', 'Network', 'System', 'Application', 'Storage', and 'Status'. The 'Application' tab is selected. On the left side of the 'Application' tab, there is a vertical menu with buttons: 'Language', 'Motion Detection', 'Event', and 'Logout'. The 'Language' button is highlighted. The main content area is titled 'LANGUAGE SETUP' and contains a sub-section 'LANGUAGE SETTING'. Under this sub-section, there is a label 'Language:' followed by a dropdown menu showing 'English(English)'. Below the dropdown menu is a 'Submit' button.

2. Select language and click "Submit" to save.

- Changing the Application Settings —Motion Detection.

Setting motion detection:

1. Click the **Motion Detection** button on the left side of the Application page to enter the "Motion Detection" page.

The screenshot shows the 'MOTION DETECTION' configuration page for the DDK-1800 device. The interface includes a top navigation bar with the 'ipxx' logo and links to 'Live Video', 'Setup', 'Wizard', and 'Help'. Below this is a tabbed interface with 'Image', 'Network', 'System', 'Application', 'Storage', and 'Status'. The 'Application' tab is active, and the 'Motion Detection' sub-tab is selected in the left sidebar. The main area displays the 'MOTION DETECTION' settings, featuring a 'LIVE VIDEO' section with an 'Enable Video Motion' checkbox. A video feed of an airport terminal is shown, with a small 'D3' label. To the right of the video are two sliders: 'Sensitivity' (set to 100) and 'Percentage' (set to 5), both ranging from 0 to 100%. A 'Submit' button is located at the bottom right of the settings area.

2. Drag the mouse across a targeted zone to draw a rectangle on the image.
- NOTE: You can set more than one targeted zone.**
3. Enable / disable the motion detection function.
  4. Click the **Submit** button to save the settings.



- Changing the Application Settings —Event.

Click the Event bottom at left of Application page and then click on “Add” to enter the setting pages for the Server, Media, Event and Recording settings. Click “Delete” to erase settings.

The screenshot shows the DDK-1800 web interface. The top navigation bar includes the 'ipx' logo, the model 'DDK-1800', and links for 'Live Video', 'Setup', 'Wizard', and 'Help'. Below this is a tabbed interface with 'Image', 'Network', 'System', 'Application', 'Storage', and 'Status'. The 'Application' tab is active, and within it, the 'Event' sub-tab is selected on the left sidebar. The main content area is titled 'EVENT SETUP' and contains four sections: 'SERVER', 'MEDIA', 'EVENT', and 'RECORDING'. Each section has a table with columns for 'Name', 'Type', and specific configuration details. Each table includes an 'Add' button, a dropdown menu, and a 'Delete' button.

| EVENT SETUP                        |                                  |                                       |     |     |     |     |     |     |      |         |             |
|------------------------------------|----------------------------------|---------------------------------------|-----|-----|-----|-----|-----|-----|------|---------|-------------|
| SERVER                             |                                  |                                       |     |     |     |     |     |     |      |         |             |
| Name                               | Type                             | Address/Location                      |     |     |     |     |     |     |      |         |             |
| <input type="button" value="Add"/> | <input type="button" value="▼"/> | <input type="button" value="Delete"/> |     |     |     |     |     |     |      |         |             |
| MEDIA                              |                                  |                                       |     |     |     |     |     |     |      |         |             |
| Name                               | Type                             |                                       |     |     |     |     |     |     |      |         |             |
| <input type="button" value="Add"/> | <input type="button" value="▼"/> | <input type="button" value="Delete"/> |     |     |     |     |     |     |      |         |             |
| EVENT                              |                                  |                                       |     |     |     |     |     |     |      |         |             |
| Name                               | Status                           | Sun                                   | Mon | Tue | Wed | Thu | Fri | Sat | Time | Trigger |             |
| <input type="button" value="Add"/> | <input type="button" value="▼"/> | <input type="button" value="Delete"/> |     |     |     |     |     |     |      |         |             |
| RECORDING                          |                                  |                                       |     |     |     |     |     |     |      |         |             |
| Name                               | Status                           | Sun                                   | Mon | Tue | Wed | Thu | Fri | Sat | Time | Source  | Destination |
| <input type="button" value="Add"/> | <input type="button" value="▼"/> | <input type="button" value="Delete"/> |     |     |     |     |     |     |      |         |             |

The Event Setup page has 4 sections: Server, Media, Event, and Recording.

1. To add a new setting click add under EVENT, SERVER, or MEDIA
2. To delete a setting from a drop-down click Delete.
3. Click on a setting name to enter a window to modify.

**NOTE:** You can add up to five servers, five media fields, three event schedules, and two recording schedules.

## Server:

Click the **Add** button in the Server area to enter the "Server" settings page.

**SERVER**

SERVER TYPE

Server Name:

☒ Email

Sender email address

Recipient email address

Server address

User name

Password

Port

☐ This server requires a secure connection (StartTLS)

☐ FTP

Server address

Port

User name

Password

Remote folder name

☐ Passive mode

☐ Network storage

Network storage location   
(for example: \\my\_nas\\disk\\folder)

Workgroup

User name

Password

Primary WINS server

☐ SD Card

1. Enter the unique Server name. There are four types of servers supported: email server, FTP server, HTTP server and network storage.
2. Set Email the details. **"Sender email address"**, the email address of the sender.  
**"Recipient email address"**, the email address of the recipient.
3. Set FTP details. **"Remote folder name"**: Must be an authorized folder on the external FTP server. The string must conform to that of the external FTP server. Some FTP servers cannot accept a preceding slash symbol before the path without virtual path mapping. Refer to the instructions for the external FTP server for details. The folder privilege must be open

for uploading. **"Passive Mode"**: Set details for Network storage. Only one network storage device is supported. **"Network storage location"** is the path to upload the media.

**"Workgroup"** is the workgroup for network storage.

4. Click on SD card to activate this function. The SD card is used for recording video data.
5. Click "Submit" to save or click on "Don't Submit" to go back to the Event main page.

### **Server settings:**

- (1) Click **Add** in the Sever area on the Event Settings page to open the Server setting page. On this page, you can specify where a notification has been sent when a trigger is activated. A total of 5 server settings can be configured.

**NOTE: The maximum number of server settings is five. Network storage or SD card can only be set for one.**

- (2) Enter the Server Name for the server setting.
- (3) Select the Server Type. There are four choices of server types available: Email, FTP, Network storage and SD card. Select the server types.
  - **Email:** Select to send media files via email when a trigger is activated.
    - (a) Sender email address: Enter the email address of the sender.
    - (b) Recipient email address: Enter the email address of the recipient.
    - (c) Server address: Enter the domain or IP address of the email server.
    - (d) User name: Enter the user name of the email account.
    - (e) Password: Enter the password of the email account.
    - (f) Port: The default email server port is 25. You can also manually set different port.
    - (g) To verify if the email setting is correctly configured click the Test button. The result will be shown above the setting page (TEST OK or TEST ERROR). If successful, you will receive an email indicating the result.
    - (h) Click Submit to activate the setting.

- **FTP:** Select to send media files to an FTP server when a trigger is activated.
  - (a) Server address: Enter the domain or IP address of the FTP server.
  - (b) Port: The default FTP server port is 21. It can also be assigned a different port number.
  - (c) User name: Enter the login name of the FTP account.
  - (d) Password: Enter the password of the FTP account.
  - (e) Remote folder name: Enter the folder name where the media file will be sent. If the folder name does not exist the DDK-1800D will create one on the FTP server.
  - (f) Passive mode: Most firewalls do not accept new connections initiated from external requests. If the FTP server supports passive mode, select this option to enable passive mode FTP and allow data transmission to pass through the firewall.
  - (g) To verify if the FTP setting is correctly configured, click the Test button. The result will be shown above the setting page (TEST OK or TEST ERROR).
  - (h) Click Submit to activate the setting.
  
- **Network storage:** Select to send media files to a network storage location when a trigger is activated.
  - (a) Network storage location: Enter the network storage path (\\ server name or IP address\ folder name).
  - (b) Workgroup: Enter the workgroup name for the network storage server.
  - (c) User name: Enter the user name for the server.
  - (d) Password: Enter the password for the server.
  - (e) Primary WINS server:
  - (f) To verify if the storage setting is correctly configured, click the Test button. The result will be shown above the setting page (TEST OK or TEST ERROR).
  - (g) Click Submit to activate the setting.

.

- **SD card:** Select to send media files to an SD card when a trigger is activated.
  - (a) Insert SD card.
  - (b) To verify if the storage setting is correctly configured click the Test button.  
The result will be shown above the setting page (TEST OK or TEST ERROR).
  - (c) Click Submit to activate the setting.
- (4) When completed, click Submit to enable the settings and exit the page. The new server settings will appear in the Event Settings page.

**NOTE:** To remove a server setting from the list (Application> Event>), select a server name from the drop-down list and click Delete.

**Note that only when the server setting is not being applied to an event setting (Application> Event> Event> The “Action” option) can it be deleted or the DDK-1800D won’t take any action when a trigger is activated.**

## Media:

Click the **Add** button in the Media area to enter the “Media” settings page.

**ipx** **DDK-1800** Live Video | Setup | Wizard | Help

Image Network System Application Storage Status

Language  
Motion Detection  
Event  
Logout

### MEDIA

MEDIA TYPE

Media name:

☒ Snapshot

Source:

Send  pre-event image(s) [0~4]

Send  post-event image(s) [0~7]

File Name Prefix:

☐ Add date and time suffix to file name

☐ Video Clip

Source:

Pre-event recording:  seconds [0~4]

Maximum duration:  seconds [1~100]

Maximum file size:  Kbytes [100~3000]

File Name Prefix:

☐ System log

1. Enter the unique Media name. There are three types of supported media: snapshot, video clip and system log.

2. Set details of the Snapshot.

**"Source"**: Select the video source.

**"Send Pre-event images"**: The number of pre-event images.

**"Send Post-event images"**: The number of post-event images.

**"File name prefix"**: The prefix name will be added on the file name of the snapshot images.

**"Add date and time suffix to file name"**: Check to add time information as file name suffix.

3. Set details of Video Clip.

**"Source"**: Select the video source.

**"Pre-event recording"**: The interval of pre-event recording in seconds. There are two limitations for video clip file:

**"Maximum duration":** The maximum recording file duration in seconds.

**"Maximum file size":** The maximum file size would be generated.

4. Click on the System log to activate this function.
5. Click on "Submit" to save, or click on "Don't Submit" to go back to the Event main page.

### **Media settings:**

- (1) Click **Add** in the Media area of the Event Settings page to open. On this page, you can specify the type of media that will be sent when a trigger is activated. A total of 5 media settings can be configured.
- (2) Enter the Media Name for the media setting.
- (3) Select the Media Type. There are three choices of media types available: Snapshot, Video Clip and System log.

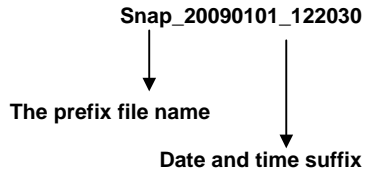
- **Snapshot:**

- (a) Source: Select to take snapshots from the video profile.
- (b) Send pre-event image(s) [0~4]: The DDK-1800D has a buffer area; it temporarily holds data up to a certain limit. Enter the number of how many images to be captured before a trigger is activated. Up to 4 images can be generated.
- (c) Send post-event image(s) [0~7]: Enter the number of images to capture after a trigger is activated. Up to 7 images can be generated.

**NOTE: For example, if both the Send pre-event images and Send post-event images are set to 4, a total of 8 images are generated after a trigger is activated.**

- (d) File Name Prefix: Enter the text that will be appended to the front of the file name.

For example, the file name will be in this form:



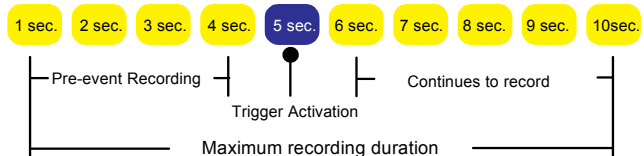
**The format is: YYYYMMDD\_HHMMSS**

- (e) Add date and time suffix to file name: Select the option to add date/ time suffix to the file name.
- (f) Click Submit to save the setting.

**Video Clip:** Select to send video clips when a trigger is activated.

- (a) Source: Select to record video clips from a video profile.
- (b) Pre-event recording: The DDK-1800D has a memory buffer that temporarily holds data. Enter the number of seconds of recording to be saved before a trigger is activated. There is a 4 second maximum setting.
- (c) Maximum duration: Enter the maximum recording duration in seconds. Up to 100 seconds can be set.

**Example: If pre-event recording is set to 4 seconds and the maximum duration is set to 10 seconds, the DDK-1800D continues to record for another 5 seconds after a trigger is activated.**



- (d) Maximum file size: Specify the maximum file size.
- (e) File Name Prefix: Enter the text that will be appended to the front of the file name.
- (f) Click Submit to save the setting.



- **System log:** Select to send a system log when a trigger is activated. Click Submit to activate the setting.

- (4) Click Submit to enable the settings and exit the page. The new media settings will appear on the Event Settings page.

**NOTE:** To remove a media setting from the list (Application> Event>), select a media name from the drop-down list and click Delete.

**Note that only when the media setting is not being applied to an event setting (Application> Event> Event> The “Attached media” item) can it be deleted or you can’t get the images/ logs when a trigger is activated.**

## Event:

Click the **Add** button in the Event area to enter the “Event” settings page.

**EVENT**

EVENT

Event name:

☐ Enable this event

Priority:

Delay for  seconds before detecting next event [For motion detection and digital input]

**TRIGGER**

☒ Video motion detection

☐ Periodic

Trigger every  minutes

☐ Digital input

☐ System boot

☐ Network Lose

**EVENT SCHEDULE**

☒ Sun ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☒ Sat

**Time**

☒ Always

☐ From   To

**ACTION**

☐ Trigger D/O for  seconds

1. Enter an Event name. Check the “Enable this event” box to activate this function. Then set the Priority and the Source from the drop-down list.

**"Priority":** The event with higher priority will be executed first.

2. Select the event trigger mode.

**"Video motion detection":** Motion triggered events.

**"Periodic":** An event is triggered in specified intervals. The unit of trigger interval is 1 minute.

**"Digital input":** An event is triggered when the DI status is changed by an external device.

**"System boot":** An event is triggered when the system boots up.

**"Network Loss":** An event is triggered when the network disconnect.

3. Set the recording schedule time.

4. Sets the D/O Event Trigger. Check to trigger digital output for number of specified seconds when an event is triggered.
5. Click "Submit" to save or click on "Don't Submit" to go back to the Event main page.

### **Event settings:**

- (1) Click **Add** in the Event area on Event Settings page to open the Event setting page. On this page, you can configure three settings: Trigger, Event Schedule, and Action to set an event. A total of 3 different event settings can be configured.
- (2) Enter the Event Name for the event setting.
- (3) Select "Enable this event" option to enable the event setting.
- (4) Set the event priority from: "normal", "high" and "highest". Events with a higher priority will be executed first.
- (5) Enter the duration in seconds to restart motion detection after a motion is detected
- (6) An event is the action initiated by the user-defined trigger source. Set the event details for each as follows.
  - **Trigger:** This option defines when to trigger the DDK-1800D. The trigger source can be configured to use the DDK-1800D's built-in motion detection , periodic, external digital input devices, or system boot:
    - (a) Video motion detection: This option makes use of the built-in motion detection mechanism as a trigger source. To enable this function, you need to first configure a motion detection windows.
    - (b) Periodic: This option allows the DDK-1800D to trigger periodically as defined in minute intervals up to 99999 minutes.
    - (c) Digital input: This option allows the DDK-1800D to use an external digital input device or sensor as a trigger source.
    - (d) System boot: This option triggers the DDK-1800D when the power to the DDK-1800D is disconnected.
    - (e) Network Loss: This option triggers the DDK-1800D when the network to the DDK-1800D is disconnected.

- **Event Schedule:** Specify the period for the event.
  - (a) Select the days of the week.
  - (b) Set the recording schedule in the 24-hour time format.
  
- **Action:** Define the actions to be performed by the DDK-1800D when a trigger is activated.
  - (a) Trigger D/O for ~ seconds: Select this option to turn on the external digital output device when a trigger is activated. Specify the length of the trigger interval in the text box.
  - (b) For setting an event with recorded video or snapshots it is necessary to configure the server and media settings first so that the DDK-1800D will know what action to take when a trigger is activated.  
  
Check a Server Name and then select the Attached media (the media name) from the drop-down list.
  
- (7) Click Submit to enable the settings to exit this page. The new event settings will appear on the Event Settings page.

**NOTE: The new event settings / server settings / media settings will appear in the event drop-down list on the “Application> Event>” page.**

## Recording:

Click the **Add** button in the Recording area to enter the “Recording” settings page.

**RECORDING**

Recording entry name:

☐ Enable this recording

Priority:

Source:

**RECORDING SCHEDULE**

☒ Sun ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☒ Sat

**Time**

☒ Always

☐ From   To

**RECORDING SETTINGS**

Destination:

Total cycling recording size:  Kbytes [1000~200000000]

Size of each file for recording:  Kbytes [200~5000]

File Name Prefix:

1. Enter the Recording entry name. Check the “Enable this recording” box to activate this function. Enable this option if you want to upload the recording to a shared folder on the network. Then set the Priority and the Source from the drop-down list.
2. Set the recording schedule time. Select the day(s) for recording to be enabled
3. Select Always or From.  
**“Always”**: This enables the DDK-1800D to make video clips continuously.  
**“From”**: The time range specified for the video clip.
4. Click “Submit” to save or click “Don’t Submit” to go back to the Event main page.

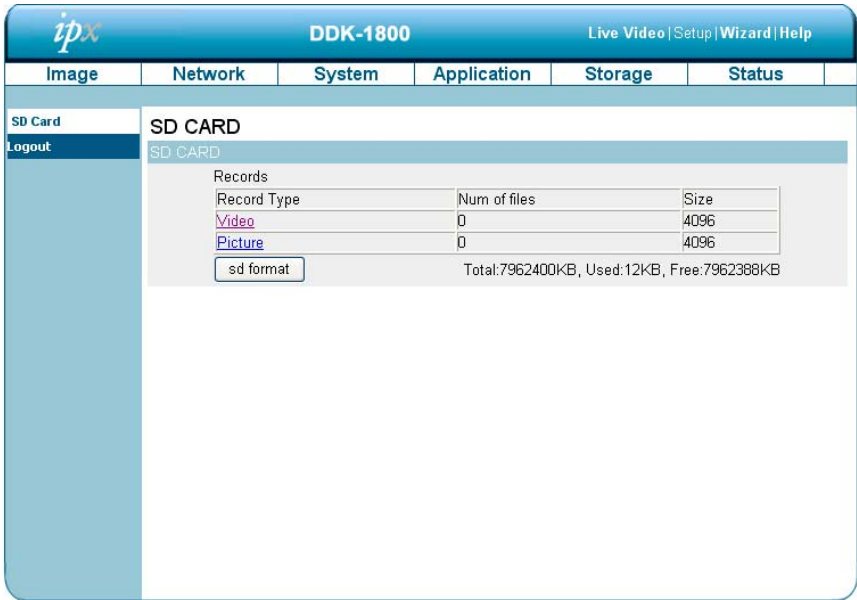
### **Record settings:**

- (1) Click **Add** in the Record area on the Event Settings page to open the Record settings page. In this page recording source, recording schedule and recording capacity can be defined. A total of 2 recording settings can be configured.
- (2) Enter the Record entry name for the event setting.
- (3) Select "Enable this recording" option to enable the recording setting.
- (4) Select the recording priority from: "normal", "high" and "highest". Recording with a higher priority will be executed first.
- (5) Select the recording source from the drop-down list (profiles).
- (6) Specify the recording schedule and the recording settings.
  - **Recording Schedule:**
    - (a) Select the days of the week.
    - (b) Set the recording schedule in the 24-hour time format.
  - **Recording Settings:**
    - (a) Destination: You can select the SD card or SAMBA (Network storage).
    - (b) Total cycling recording size: When the maximum capacity setting the oldest files will be overwritten by the newest.
    - (c) Size of each file for recording: Set the maximum file size for each video files.
    - (d) File Name Prefix: Enter the text that will be appended to the front of the file name.
- (7) Click Submit to enable the settings and exit the page. The new media settings will appear on the Event Settings page.

4.1.3.6 Changing the Storage Settings

- Changing the SD card Settings.

1. Click the “storage” button at the top of the Setup page to enter the “SD Card” screen.



2. The SD Card page contains two image modes: Video and Picture.
3. Click “Video” or “Picture” to enter the sub year-month folder.
4. Click to enter sub date folder.
5. Click the file to display images.
6. Files can be deleted by checking and then clicking the OK button.

4.1.3.7 Status

- Device information.

This page displays information about device and network connection.

Click the “Device info” button on the Status page to enter the “Device info” screen.

DDK-1800

Live Video | Setup | Wizard | Help

ImageNetworkSystemApplicationStorageStatus

Device Info

Log

Logout

DEVICE INFO

INFORMATION

Model Name

DDK-1800D

Device Name

DDK-1800D

Time & Date

Mon May 23 00:19:52 2011

Firmware Version

2.00

HTML Version

3.0.78

Activex Version

2,0,0,48

MAC Address

00:0C:0C:01:FE:DF

IP Address

192.168.0.176

IP Subnet Mask

255.255.252.0

Default Gateway

0.0.0.0

Primary DNS

192.168.1.11

PPPoE

Disable

DDNS

Disable

TV Output Mode

NTSC



- Device information.

This page displays the DDK-1800D log information.

**DDK-1800** Live Video | Setup | Wizard | Help

Image Network System Application Storage Status

Device Info Log Logout

### SYSTEM LOG

CURRENT LOG

1. 23-05-2011 00:14:49 root LOGIN OK FROM 192.168.2.167
2. 22-05-2011 23:00:38 IP CAMERA ACQUIRE DHCP IP 192.168.0.176
3. 22-05-2011 23:00:36 SYSTEM SET IR LIGHT OFF
4. 22-05-2011 23:00:32 SYSTEM BOOTING
5. 22-05-2011 22:59:31 IP CAMERA ACQUIRE DHCP IP 192.168.0.176
6. 22-05-2011 22:58:54 SYSTEM SET IR LIGHT OFF
7. 22-05-2011 22:58:50 SYSTEM BOOTING
8. 22-05-2011 22:56:27 SYSTEM SET IR LIGHT OFF
9. 22-05-2011 22:56:23 SYSTEM BOOTING
10. 22-05-2011 22:51:39 SYSTEM SET IR LIGHT OFF
11. 22-05-2011 22:51:35 SYSTEM BOOTING
12. 22-05-2011 22:46:48 SYSTEM SET IR LIGHT OFF
13. 22-05-2011 22:46:44 SYSTEM BOOTING
14. 22-05-2011 22:44:36 root LOGIN OK FROM 192.168.0.48
15. 22-05-2011 22:42:39 root LOGIN OK FROM 192.168.0.72
16. 22-05-2011 22:42:32 IP CAMERA ACQUIRE DHCP IP 192.168.0.176
17. 22-05-2011 22:42:31 SYSTEM SET IR LIGHT OFF
18. 22-05-2011 22:42:27 SYSTEM BOOTING
19. 22-05-2011 22:40:54 root LOGIN OK FROM 192.168.0.48
20. 22-05-2011 22:40:03 root LOGIN OK FROM 192.168.0.72

First Page Previous 20 Next 20

Clear Download

1. Click the "Device info" button on the Status page to enter the "Device info" screen.
2. Click "Clear " to erase all system logs. You may also download by clicking "Download".

#### **4.1.3.8 PPPoE & DDNS**

##### **Using PPPoE**

1. Install the XDSL software (obtained from your ISP dealer) on a PC.
2. Search DDK-1800D's IP address: you can connect the DDK-1800D to a Video monitor. The monitor screen will show the IP address on the right side.
3. Turn off the DHCP function of the DDK-1800D if it is "ON".
4. Installing an IP address in your PC or notebook.

Desktop → Move the mouse to the Network neighborhood and click the right key of the mouse → Choose properties → Choose your local connection → Choose the properties and select the configuration → Select the TCP / IP → Choose the properties → Enter the IP address in a quad formula, for example "192. 168. 1.101" (the first three parts must be identical to the above example. The last part can be changed to any number not to exceed 255) → Click on the mask and the mask input: "255. 255. 255. 0" (a fixed formula) → Click "OK" → Click "OK".

5. Desktop → open browser → Enter the DDK-1800D's IP address in the URL → Enter → DDK-1800D will load.

##### **PPPoE Settings**

1. Launch DDK-1800D's home page → Choose network → Enter User Name: "root" and Password: Admin" → Click "OK".
2. Choose PPPoE → PPPoE mode: Select "ON" → Enter "Account" → Enter "Password" → Submit → Unplug the power connection.
3. Power up the DDK-1800D to receive an IP address from the ISP (this IP address is dynamic --- Each time the DDK-1800D is powered off and on a new IP address will be obtained).

**Test:**

1. Desktop → IE browser → Enter the DDK-1800D IP address (as in the PPPoE settings in step 3 above) → DDK-1800D should load.

**DDNS settings**

1. Launch browser → Enter address to connect to DDK-1800D → Choose network → Enter User name : "root" and Password : "Admin" → Click "OK" .
2. Select "DDNS" → Click "Enable DDNS" → Enter the "DDNS host name", for example "abc123. homeip.net" → Enter "DDNS Account", for example "abc123" → Enter the "DNS Password", for example "7777" → Submit → The settings are now complete → Close browser.
3. Re-open browser → Enter address, → view DDK-1800D images. The procedure is complete.

**NOTE: These settings are only for an ADSL Dynamic IP configuration. If your configuration is fixed, it is not required to set the PPPoE and DDNS settings.**

## 4.2 The CMS (Central Management System)

This section provides instructions for installing and using the **Central Management System** ( CMS ) software which can be found on the CD included with the DDK-1800D.

### System Requirements

- Intel Pentium 1.5 GHz processor or above (2.8 GHz or higher recommended).
- 1GB RAM minimum (2GB or higher recommended).
- Windows XP or above.
- 16 MB VGA card capable of 24-bit true color display.
- 10GB free hard-disk space for software installation.
- 10/100 Base-TX network for LAN operation.
- Microsoft Internet Explorer 6 (or higher recommended).
- In multi-channel recording mode, HD data transfer rates must be 66MB or above (100MB or higher recommended).

### 4.2.1 Introduction

The **CMS** allows access to multiple DDK-1800Ds from a local or remote desktop or a laptop in a TCP/IP network environment and supports the following functions.

- **Views live steaming images from DDK-1800Ds.**
- **Store, search, and review recorded video.**
- **Supports manual, event, and scheduled recording.**

#### 4.2.2 Installing CMS on your Computer

##### Installing CMS from the supplied CD.

1. Exit all applications running on the computer.
2. Insert CD in CD-ROM drive. The program will execute the installation automatically. Follow the on-screen instructions to proceed with the rest of the installation procedure.
3. After the installation is complete, launch **START** and point to **Programs / ipx CMS / ipx CMS** to open up the program selection page as shown below. Click on the **ipx CMS** tag to start the **CMS** program.

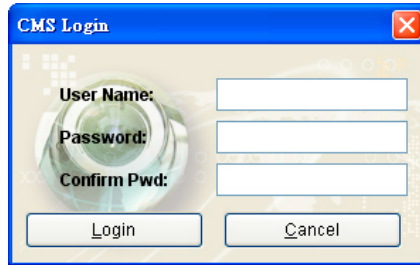
##### Installing CMS from the ZIP file.

1. Save the ZIP file to your computer and extract the file to a designated directory.
2. Open the extracted folder. The folder contains 1 file.
3. Click the **setup** icon to execute the installation and then follow the on-screen instructions to proceed with the installation process.
4. After the installation is complete, click the **START** menu from your computer, and point to **Programs / ipx CMS** to start the **CMS** program.

**NOTE: Please make sure the TCP/IP communication software has been properly set and configured in your computer.**

### 4.2.3 Login

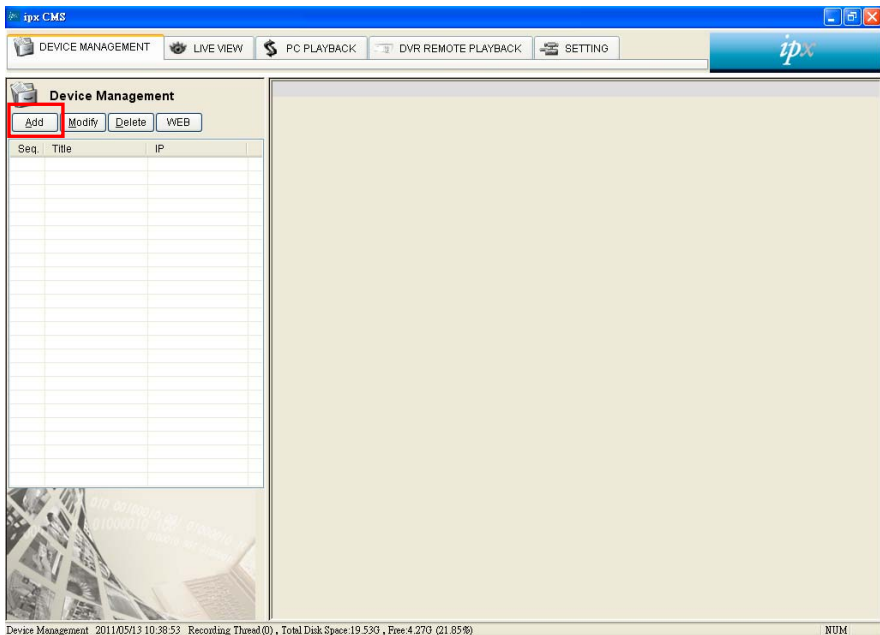
Once the **CMS** is executed a Login prompt will appear. Enter the default user name: **admin**, and password: **9999** in the respective. Click the “**OK**” button and enter the console page of the **CMS**.




The image shows a 'CMS Login' dialog box with a blue title bar and a close button. It contains three input fields labeled 'User Name:', 'Password:', and 'Confirm Pwd:'. Below the fields are two buttons: 'Login' and 'Cancel'.

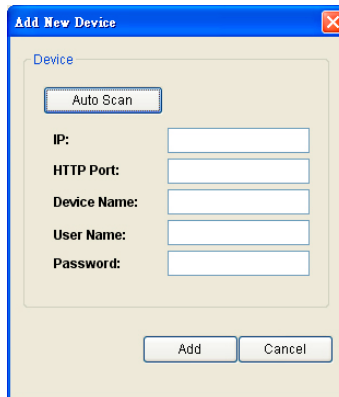
### Viewing DDK-live video

Follow the instructions below to use the **CMS-1020** to locate DDK-1800Ds accessible on the network. Upon launching **CMS** a connection box will appear as shown below.



1. Select the  (Add Device) button on the **Device Management** page.

2. Add a device from the Add Device page.




The image shows a software dialog box titled "Add New Device". It features a blue header bar with the title and a red close button. The main content area is light beige and contains a section labeled "Device" in blue. Within this section, there is an "Auto Scan" button. Below this button are five input fields, each with a label: "IP:", "HTTP Port:", "Device Name:", "User Name:", and "Password:". At the bottom of the dialog, there are two buttons: "Add" and "Cancel".

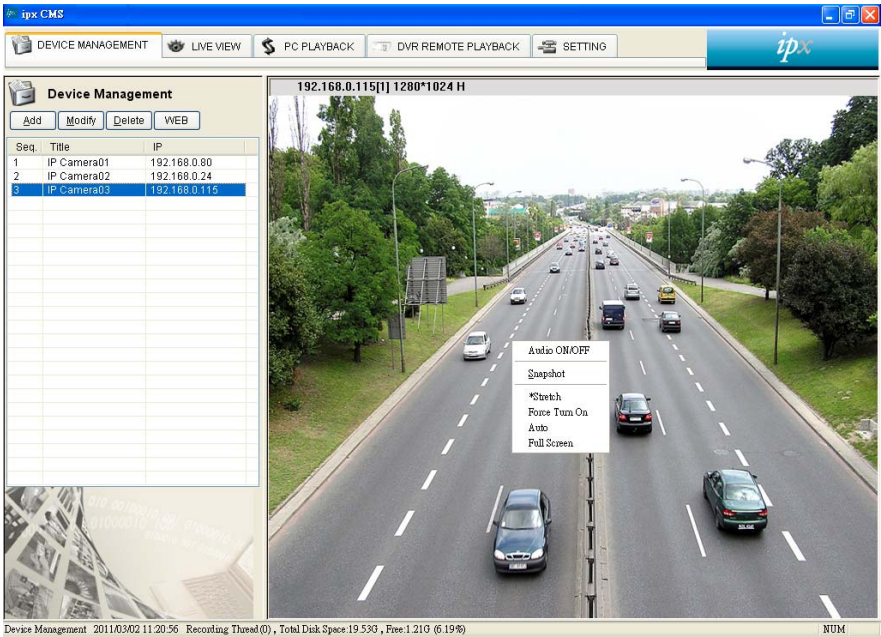
3. **(1)** Click the **Auto Scan** button at the bottom of the "Add Device" page to find devices accessible on the LAN. The "Device Auto Scan" page will appear. Select a device and click "**Add**" at the bottom of the page to access the "Add Device" page again.  
**(2)** This page shows the device IP Address and the HTTP Port. Enter Device Title, Username, Password, and select the share device function or the permissions function. Click the "**Add** " button to establish the connection between the device and the computer.
4. Click the device title to begin viewing live video from a DDK-1800D from the device list.





**NOTE: To add more devices repeat the above instructions.**

4.2.4 Operation

4.2.4.1 Device Management

Once the connection has been established, click the  **DEVICE MANAGEMENT** button to enter the Device Management window (see the sample screen below.) On the left side of the window is video from selected device.




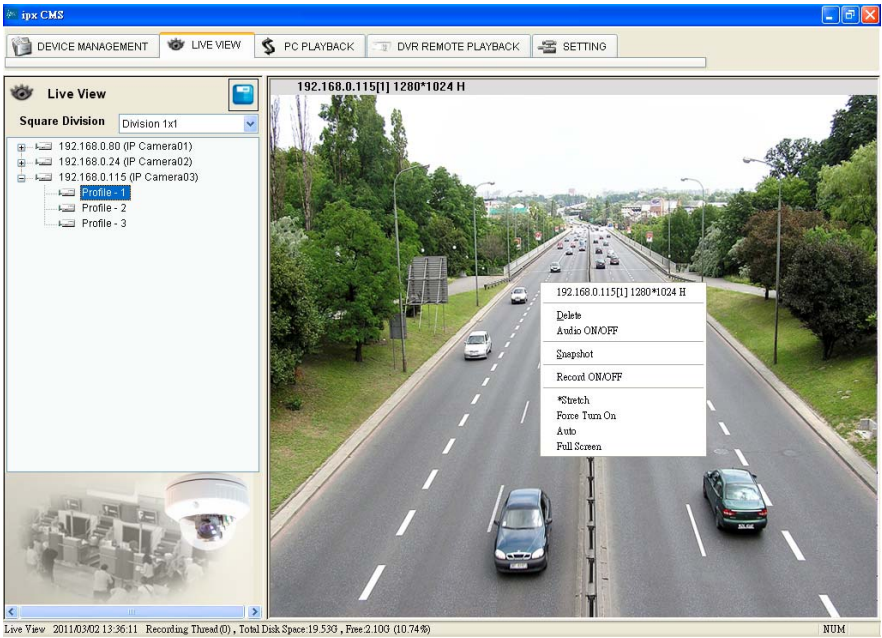
|                                                                                                                                  |                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                               | <b>Add device:</b><br>Add a new device.                                                                                                                   |
|                                               | <b>Modify device:</b><br>Modify the added device. Select a device, then click this button to edit the device.                                             |
|                                               | <b>Delete device:</b><br>Delete the added device.                                                                                                         |
|                                               | <b>Device Setting:</b><br>For additional device settings, select the device title and click the SETTING button to enter the settings pages of the device. |
| <b>List of devices:</b><br>You can click the title of the device and use the icons above the list to change the device settings. |                                                                                                                                                           |
| <b>Display area:</b><br>Click the title of the device to see a live images in this area.                                         |                                                                                                                                                           |




|                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pop-menu:</b><br>Use the mouse to move to each channel. Click the right key of the mouse to show a window. You can select " <b>Audio On/Off</b> ", " <b>Snapshot</b> " or " <b>Size</b> ". |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Audio On/Off</b>                                                                                                                                                                           | Click to activate the audio function. Click again to deactivate the function.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Snapshot</b>                                                                                                                                                                               | Click to save a JPG image form the selected device. Set the backup file path and the file name.                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Size</b>                                                                                                                                                                                   | <b>Stretch:</b> Click "Stretch" and the image will be stretched to fit the entire viewable area.<br><b>Force Turn On:</b> Click "Force Turn On" and the image will be shown in the DDK-1800D's original image ratio centered in the display area.<br><b>Auto:</b> Click "Auto", and the image will be stretched to fit the entire viewable area of the viewer in DDK-1800Ds normal ratio.<br><b>Full Screen:</b> Click "Full Screen" and the image will be stretched to the displays full screen area. |

4.2.4.2 Live View

Once a connection has been established, click the  **LIVE VIEW** button to enter the Live View window (see the sample screen below.)



|                                                                                                                                                                                   |                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Division</b>                                                                                                                                                                   | Select the division mode of the live view area.                                        |
|                                                                                                  | Click to display information for the selected device above the live view display area. |
| <b>Live view area</b>                                                                                                                                                             | Select a device from the list and drag and drop it in the live view area.              |
| <b>Pop-menu:</b><br>Use the mouse to move to each channel. Click the right mouse button to show a window. Select " <b>Audio On/Off</b> ", " <b>Snapshot</b> " or " <b>Size</b> ". |                                                                                        |
| <b>Remove</b>                                                                                                                                                                     | Click the "Delete" item in the pop-up menu and the image will be removed.              |
| <b>Audio On/Off</b>                                                                                                                                                               | Click to activate the audio function. Click again to deactivate the function.          |
| <b>Snapshot</b>                                                                                                                                                                   | Click to save a JPG and set the backup file path and file name.                        |
| <b>Record On/Off</b>                                                                                                                                                              | Click to record video.                                                                 |

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Size</b> | <p><b>Stretch:</b> Click "Stretch" and the image will be stretched to fit the entire viewable area.</p> <p><b>Force Turn On:</b> Click "Force Turn On" and the image will be shown in the DDK-1800D's original image ratio centered in the display area.</p> <p><b>Auto:</b> Click "Auto" and the image will be stretched to fit the entire viewable area of the viewer in DDK-1800Ds normal ratio.</p> <p><b>Full Screen:</b> Click "Full Screen" and the image will be stretched to the displays full screen area.</p> |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|


**Add a DDK-1800D to Live View area:**

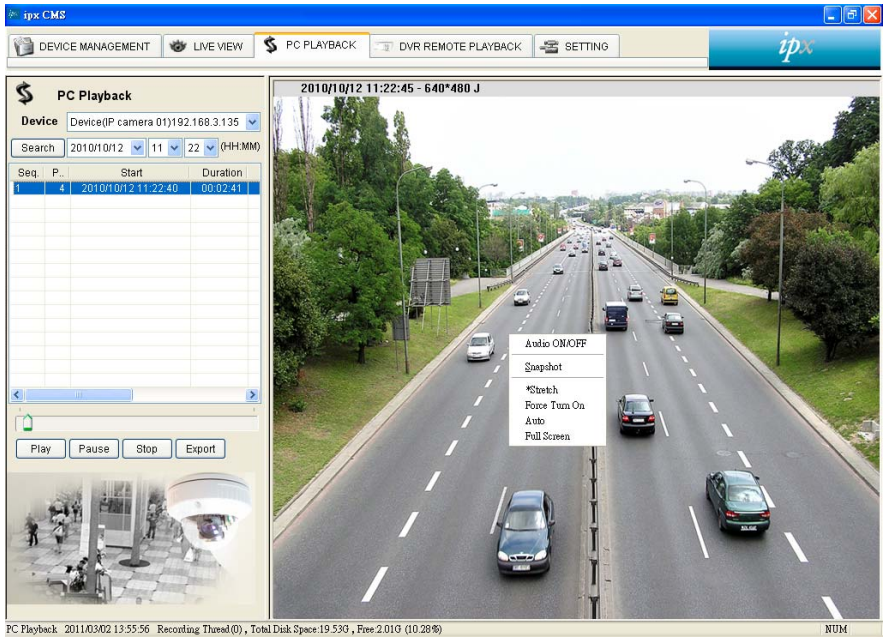
1. Click the DDK-1800D.
2. Hold down the right mouse button and drag onto the Live View area. The video from the DDK-1800D will be displayed.
3. To change/remove DDK-1800Ds or use the "Audio On/Off" or "Snapshot" functions, right click again on the live view area, then click left to select.



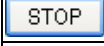

**Remove a DDK-1800D from the Live View area:**

1. Select the DDK-1800D to be deleted.
2. Right click on the live view area, then click left to select "Delete".

### 4.2.4.3 Playback


Click the  **PC PLAYBACK** button to enter the **PC Playback** page.

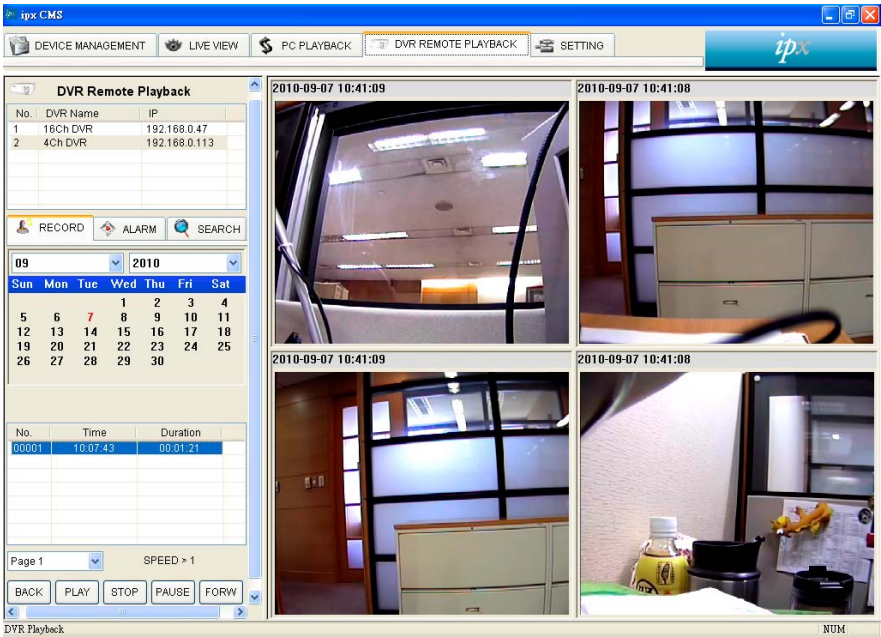


|                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Device List</b>                                                                                                                                                                     | Select the device from which to play back recorded video.                                                                                                                                                                                                                                                                             |
| <b>Play List</b>                                                                                                                                                                       | Click the file name from the recording list and the program will play back the file and show the details of the recorded file.                                                                                                                                                                                                        |
| <b>Scrollbar</b>                                                                                                                                                                       | Drag the Scrollbar with the mouse to move to a desired location.                                                                                                                                                                                                                                                                      |
|                                                                                                      | Click to play the selected video file.                                                                                                                                                                                                                                                                                                |
|                                                                                                      | Click to pause.                                                                                                                                                                                                                                                                                                                       |
|                                                                                                      | Click to stop.                                                                                                                                                                                                                                                                                                                        |
|                                                                                                      | <ol style="list-style-type: none"> <li>Click to save an AVI file of the selected video.</li> <li>Use the slider to set the Start/ End time of the recorded file then click the "Set" button.</li> <li>Set the backup file path and the file name by clicking the "AVI" button. Click to stop exporting. Then click "Save".</li> </ol> |
| <b>Pop-menu:</b><br>Use the mouse to move to each DDK-1800D. Click the right key of mouse to display a window. Select " <b>Audio On/Off</b> ", " <b>Snapshot</b> " or " <b>Size</b> ". |                                                                                                                                                                                                                                                                                                                                       |
| <b>Audio On/Off</b>                                                                                                                                                                    | Click to activate the audio function. Click again to deactivate the function.                                                                                                                                                                                                                                                         |

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Snapshot</b> | Click to save a JPG image of the selected channel. Set the file path and the file name.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Size</b>     | <p><b>Stretch:</b> Click “Stretch” and the image will be stretched to fit the Entire viewable area.</p> <p><b>Force Turn On:</b> Click “Force Turn On”, and the image will be centered and shown in the DDK-1800D’s original image ratio.</p> <p><b>Auto:</b> Click “Auto”, and the image will be stretched to fit the entire viewable area of the viewer in ratio.</p> <p><b>Full Screen:</b> Click “Full Screen”, and the image will be stretched to the entire monitor display area.</p> |

4.2.4.4 Remote Playback

Press the  button to enter the DVR Remote Playback page.



List of devices:

Click the title of the device and use the buttons below the list to search for recorded video.

09

2010

Sun

Mon

Tue

Wed

Thu

Fri

Sat

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

No.

Time

Duration

00001

10:07:43

00:01:21

09

2010

Sun

Mon

Tue

Wed

Thu

Fri

Sat

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

No.

Time

Duration

00001

10:07:43

00:01:21

Click this button and the Record List panel will appear on the left side of the Live View page.

Search for recorded video by Month/Date/Year.

NO.: File number in the alarm list.  
Time: Starting time.  
Duration: Length of recording.

Page 1

Page up/ Page down

Enables page scrolling

BACK

BACK (REV)

Click to play a recorded video in reverse.


PLAY

PLAY

Click to play a video clip from the PLAY LIST.

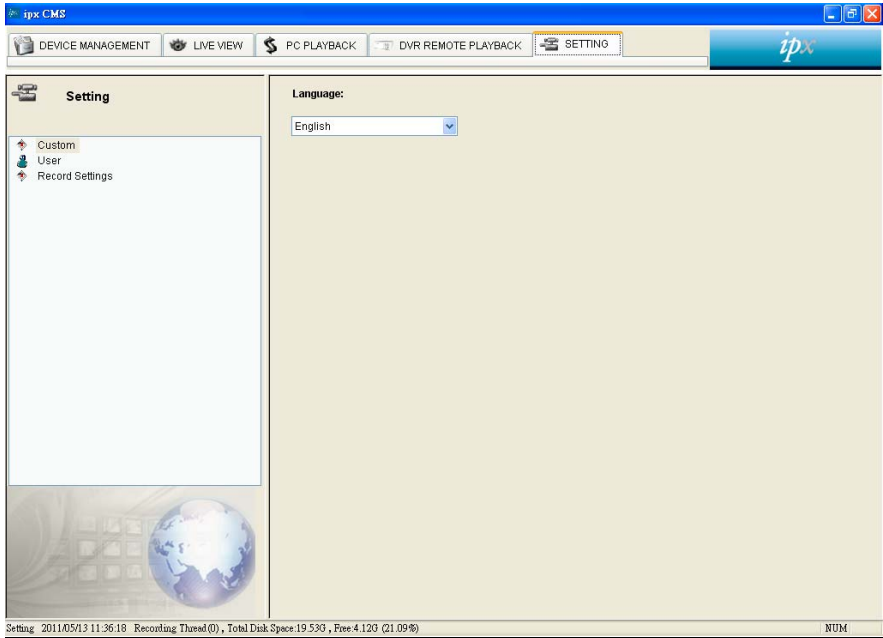
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>STOP</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | STOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Click to stop playing a recorded clip.                                                                                                                                                                                                                            |
| <div>PAUSE</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PAUSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Press the PAUSE button to pause video.                                                                                                                                                                                                                            |
| <div>FORW</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | FWD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Click to play a recorded video in fast forward mode.                                                                                                                                                                                                              |
| <div><div>ALARM</div><div><div>08</div><div><div>Sun</div><div>Mon</div><div>Tue</div><div>Wed</div><div>Thu</div><div>Fri</div><div>Sat</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div></div></div></div>                        | <div><div>ALARM</div><div><div>08</div><div><div>Sun</div><div>Mon</div><div>Tue</div><div>Wed</div><div>Thu</div><div>Fri</div><div>Sat</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div></div></div></div>                                                                         | <div>Click this button and the Alarm control panel will appear on the left side of the Live View page.</div> <div>Allows search for video by Month/Date/Year.</div> <div>Dates marked in blue indicate there are alarm activated video clips on those days.</div> |
| <div><div>No.</div><div>Time</div><div>Ch</div><div>Type</div><div>00001</div><div>10:21:20</div><div>01</div><div>Motion</div><div>00002</div><div>10:22:29</div><div>01</div><div>Motion</div><div>00003</div><div>10:23:39</div><div>01</div><div>Motion</div><div>00004</div><div>10:26:20</div><div>01</div><div>Motion</div><div>00005</div><div>10:35:38</div><div>01</div><div>Motion</div><div>00006</div><div>10:38:23</div><div>01</div><div>Motion</div><div>00007</div><div>10:40:07</div><div>01</div><div>Motion</div><div>00008</div><div>10:40:47</div><div>01</div><div>Motion</div></div> | <div><div>No.</div><div>Time</div><div>Ch</div><div>Type</div><div>00001</div><div>10:21:20</div><div>01</div><div>Motion</div><div>00002</div><div>10:22:29</div><div>01</div><div>Motion</div><div>00003</div><div>10:23:39</div><div>01</div><div>Motion</div><div>00004</div><div>10:26:20</div><div>01</div><div>Motion</div><div>00005</div><div>10:35:38</div><div>01</div><div>Motion</div><div>00006</div><div>10:38:23</div><div>01</div><div>Motion</div><div>00007</div><div>10:40:07</div><div>01</div><div>Motion</div><div>00008</div><div>10:40:47</div><div>01</div><div>Motion</div></div>                                                  | <div>NO.: An alarm number in the alarm list.</div> <div>Time: The time the alarm occurred.</div> <div>Ch: The channel where an alarm occurred.</div> <div>Type: The alarm type.</div> <div>Click on entry to review a recorded video clip.</div>                  |
| <div><div>SEARCH</div><div><div>09</div><div><div>Sun</div><div>Mon</div><div>Tue</div><div>Wed</div><div>Thu</div><div>Fri</div><div>Sat</div></div><div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div></div></div></div> <div><div>0</div><div>0</div><div>(HH:MM)</div><div>Search</div></div>             | <div><div>SEARCH</div><div><div>08</div><div><div>Sun</div><div>Mon</div><div>Tue</div><div>Wed</div><div>Thu</div><div>Fri</div><div>Sat</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div><div>21</div><div>22</div><div>23</div><div>24</div><div>25</div><div>26</div><div>27</div><div>28</div><div>29</div><div>30</div><div>31</div></div></div></div> <div><div>0</div><div>0</div><div>(HH:MM)</div><div>Search</div></div> | <div>Click this button and the Time Search panel will appear on the left side of the Live View page.</div> <div>Allows search by Month/Date/Year.</div> <div>Enter the hour and minutes and click the <div>Search</div> button.</div>                             |

#### 4.2.4.5 Settings

Click the  **SETTING** tab to enter the Settings page.

##### (1) Custom

Select Custom to enter the settings page.

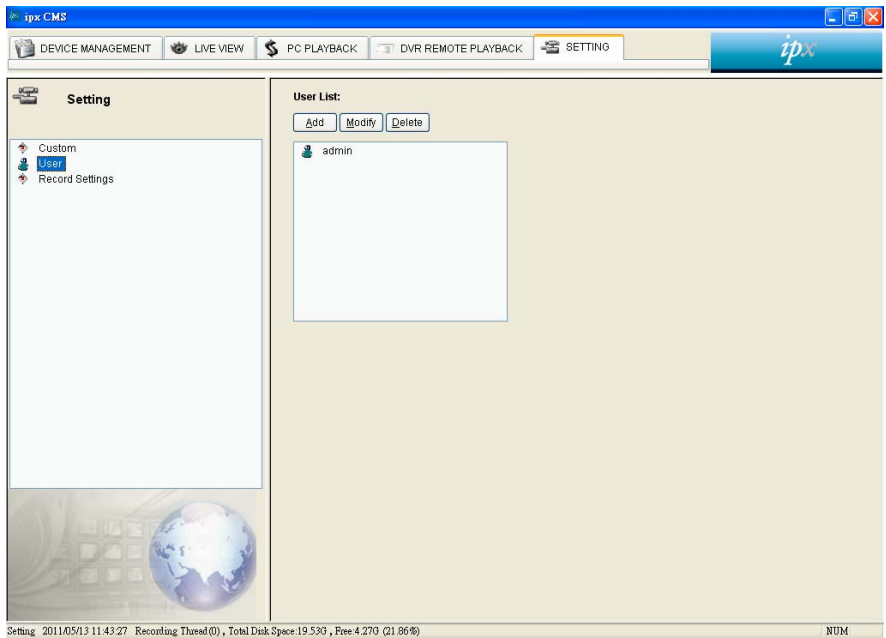


Select a language from the drop-down list.



## **(2) User**

Select User to enter the setting page.



### **Add User:**

1. Click the “Add” button to bring up the Add User dialog.
2. Enter the Username and Password and Confirm Password.
3. Select the user’s group.
4. Click “Add”.

### **Modify User:**

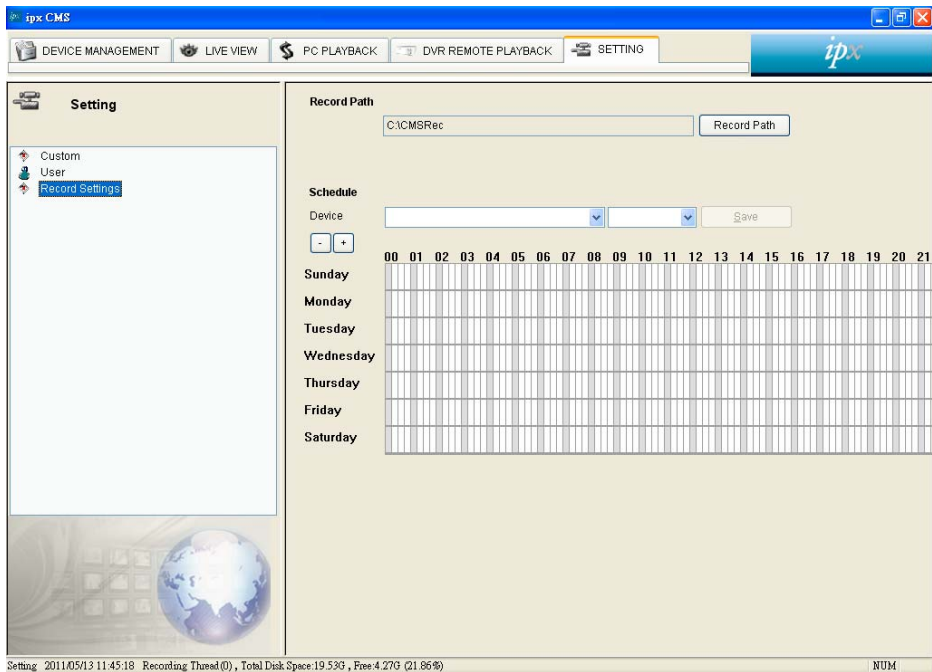
1. Click the “Modify” button to bring up the Modify User dialog box.
2. Enter Password and Confirm Password.
3. Select the user’s group.
4. Click “Modify”.

### **Delete User:**

1. Select the user to be deleted.
2. Select “Delete” and then click “Yes”.

### (3) Record Settings

Select Record Setup to enter the setting page.



|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Record Path</b>     | Click <input type="button" value="Record Path"/> to select the storage path for recorded files.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Record Schedule</b> | <p>Set the record schedule:</p> <ol style="list-style-type: none"> <li>(1) Select the device from the drop-down list.</li> <li>(2) Select the Profile ID (DDK-1800D) or the Channel (DVR) to be connected.</li> <li>(3) Click <input type="button" value="-"/> <input type="button" value="+"/> to reduce or enlarge the schedule.</li> <li>(4) Each grid on the schedule represents 15 minutes. A gray grid indicates the first 15 minutes of each hour.</li> <li>(5) Use the left mouse key to set the schedule.</li> <li>(6) Use the right mouse key to cancel the schedule.</li> <li>(7) Press <input type="button" value="Save"/> to save the schedule.</li> </ol> |

## 5. ADVANCED OPERATION

### Question 1:

**How do I view live images of the DDK-1800D via Internet Explorer on a Desktop PC or a laptop computer in a situation where there are no monitors?**

◇ To obtain the IP address of the DDK-1800D without a monitor, use one of the following two methods:

UPnP: Please refer to **APPENDIX 1**.

IP function: Please refer to **2.6 The USB function**.

### Question 2:

**How do I activate UPnP?**

1. Follow the default settings to set up the related settings and connect hardware.
2. Activate the Web browser and enter the DDK-1800D's URL.
3. SETUP→Network button.
4. Select "Enable UPnP presentation".
5. Select "Enable UPnP port forwarding"; make the "Forwarding Port" setting.

#### NOTE:

1. Follow step 4 above then turn on computer's "My Web Neighbors" to find the DDK-1800D. Then click to go to the DDK-1800D's home page.
2. Follow step 5 above and make the Route UPnP port forwarding setting.
3. Your computer can access a DDK-1800D through a router by opening a port on the router (port forwarding) if the router is configured to a specific port. For example, port "8080", you can enter the IP address as <http://xxx.xxx.xxx.xxx:8080> on the URL entry box of the web browser to access the DDK-1800D.

### Question 3:

**How do I change Video Profiles 1, 2, 3?**

1. On Live page click Profiles 1, 2 & 3.

### Question 4:

**How do I set up the motion detection area and its sensitivity?**

2. Go to SETUP→Application button →Motion Detection button.
3. Select "Enable Video Motion".
4. Set up the target zone and setup the Sensitivity and Percentage.
5. Click the **Submit** button to submit the setting.
6. When a person or object moves within the target zone under a setting, the Motion Detection will display the response signal in the Live Video and Video Out.

### Question 5:

How do I use the DynDNS to connect the DDK-1800D by using its Sub Hostname via the intranet?

#### ◇Set the DDNS function

1. Click on the **Network** button on the home page.
2. Click on the **Dynamic DNS** button on the left side of the page to enter the “Dynamic DNS” page.
3. Click “Enable DDNS” to activate.
4. Enter the DDNS Host Name, DDNS Account and DDNS Password which you created in the [www.dyndns.com](http://www.dyndns.com) website.
5. Click on the **Submit** button to submit the setting.

**NOTE:** Please refer to the **APPENDIX 2** for more details.

#### ◇Set the PPPoE function

1. Click the **Network** button on the home page.
2. Click the **PPPoE** button on the left side of the page to enter the “PPPoE” page.
3. Choose “Enable” to activate the function.
4. Enter the Account and the Password which are provided by your ISP.
5. Click the **Submit** button to submit the setting.

**NOTE:** Please refer to section **4.1.3.8** for more details.

#### ◇Use the Sub Hostname to view the DDK-1800D

1. Click on the URL block at the top of the PC screen.
2. Enter the DDNS Host Name of the DDK-1800D into the URL block and press the “**Enter**” key to enter the login page.
3. Enter the user name and password.
4. Click the “**OK**” button and enter the home page of the DDK-1800D.

### Question 6:

How do I add or modify users and their authority to use the DDK-1800D?

#### ◇Entering the setting page

1. Click the **System** button on the Setup page.
2. Click the **User** button on the left side of the page to enter the “USER” page.

#### ◇Add a new user

1. Enter the user name, the password, the confirmed password and choose the authority level.  
There are three levels of authority: Admin, Operator and Viewer.

**Admin:** The user who accesses with the admin name and password has the full rights to change the settings of the DDK-1800D.

**Operator:** Has access to viewing and functionality.

**Viewer:** Has limited viewing rights.

2. Click the **Add/Modify User** button to submit new user setting.

#### ◇ **Modify the user**

1. Click the user name you want to modify from the **USER LIST**.
2. Enter the password, the confirmed password and choose authority level.
3. Click the **Add/Modify User** button to submit new setting.

#### ◇ **Delete a user**

1. Click the user name you want to delete from the **USER LIST**.
2. Click the **Delete User** button.

### **Question 7:**

**How do I to create the self-signed certificate manually?**

3. Go to Setup→Network button →HTTPS button
4. Select "Enable secure HTTPS connection".
5. Create certificate settings→ Create self-signed certificate manually→Create.
6. Fill in the relevant data in the text boxes titled Country, State or province, Locality, Organization, Organization Unit, Common Name & Validity; click "Create".

### **Question 8:**

**How do I download the log list?**

1. Click Set up→ Status →Log.
2. The display will show the log list page.
3. Click First Page, Previous 20 or Next 20 to view the recording list.
4. Click Download; select the file path, and download the recording list.

## 6. SPECIFICATIONS

|                  |                           |                                                                                                                                                                                                                                                                                     |
|------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DDK-1800D</b> | Image sensor              | 1/2.8" 3M Sony IMX036 CMOS sensor.                                                                                                                                                                                                                                                  |
|                  | Lens                      | 3~9mm Vari-Focal board type Megapixel Lens                                                                                                                                                                                                                                          |
|                  | Minimum illumination      | Color: 0.2 Lux @ F1.2; B/W: 0.01 Lux @ F1.2                                                                                                                                                                                                                                         |
|                  | IR cut filter             | Yes                                                                                                                                                                                                                                                                                 |
|                  | Day & Night               | Auto / Day / Night / Schedule.                                                                                                                                                                                                                                                      |
| <b>Image</b>     | Video Compression         | H.264 / MPEG4 / MJPEG.                                                                                                                                                                                                                                                              |
|                  | Resolution                | <ul style="list-style-type: none"> <li>4:3 - "2048x1536" (H.264 &amp; MJPEG only), "1600x1200", "1024x768", "800x600", "640x480", "480x360", "320x240" and "176x144".</li> <li>16:9 - "1920x1080", "1280x720", "800x450", "640x360", "480x270", "320x176" and "176x144".</li> </ul> |
|                  | Video streaming           | <ul style="list-style-type: none"> <li>- Simultaneous H.264, MPEG4 and MJPEG.</li> <li>- Multi-profile: resolution / compression / frame rate / video quality.</li> </ul>                                                                                                           |
|                  | Profiles                  | 3 (selectable)                                                                                                                                                                                                                                                                      |
|                  | Frame rate                | 15 fps at 2048x1536                                                                                                                                                                                                                                                                 |
|                  | Image settings            | <ul style="list-style-type: none"> <li>- Adjustable image size, quality, and bit rate.</li> <li>- Day / Night mode.</li> <li>- Flip &amp; Mirror.</li> <li>- AGC, AWB, AES.</li> <li>- Time stamp and text caption overlay.</li> <li>- Privacy masks.</li> </ul>                    |
|                  | Video management software | SDK, including HTTP-API / ActiveX / ONVIF.                                                                                                                                                                                                                                          |
| <b>Audio</b>     | Audio streaming           | Two-way.                                                                                                                                                                                                                                                                            |
|                  | Compression               | G.711u / G.726.                                                                                                                                                                                                                                                                     |
|                  | Audio bit rate            | G.711u 64kbps / G.726 32kbps.                                                                                                                                                                                                                                                       |
|                  | Inputs / outputs:         | 1 x input / 1 x output (3.5mm earphone jack).                                                                                                                                                                                                                                       |
| <b>Network</b>   | Security                  | Multi-level password protections, IP address filtering, HTTPS encryption, User access log.                                                                                                                                                                                          |
|                  | Protocols                 | IPv4, HTTPS, HTTP, TCP, UDP, RTP/RTCP/RTSP, DHCP, NTP, FTP, SMTP, UPnP, ICMP, ARP, DDNS, PPPoE, SAMBA                                                                                                                                                                               |
|                  | Users                     | Access by 10 simultaneous users.                                                                                                                                                                                                                                                    |
|                  | Firmware update           | SD card / HTTP.                                                                                                                                                                                                                                                                     |
| <b>Alarm</b>     | Recording                 | SD card, SAMBA, FTP                                                                                                                                                                                                                                                                 |
|                  | Pre-alarm recording       | Yes.                                                                                                                                                                                                                                                                                |
|                  | Advanced motion           | 512 zones. Sensitivity: 0 - 100 %.                                                                                                                                                                                                                                                  |
|                  | Trigger                   | <ul style="list-style-type: none"> <li>Motion Detection</li> <li>Schedule</li> <li>Alarm input</li> <li>Ethernet loss</li> <li>Network/Remote digital alarm input</li> </ul>                                                                                                        |
|                  | Notification              | SD card recording, SMTP, FTP, HTTP, alarm output.                                                                                                                                                                                                                                   |

|                   |                              |                                                                                                                                                            |
|-------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Connectors</b> | RJ-45                        | 10 BASE - T / 100 BASE -TX.                                                                                                                                |
|                   | Digital I / O                | Push-in: 2 x digital input / 2 x digital output / 1 X DC output ( 12V DC ) / 1 x ground                                                                    |
|                   | Earphone jack                | 2 x 3.5 mm ( 1 x Audio in [ mic. in / line in ], 1 x Audio out [ line output ] ).                                                                          |
|                   | Reset                        | Reset for factory default.                                                                                                                                 |
|                   | Local storage device         | SD / SDHC card slot.                                                                                                                                       |
| <b>General</b>    | LED indicators               | Power / Network / SD card.                                                                                                                                 |
|                   | Power consumption            | ≤10W                                                                                                                                                       |
|                   | Power                        | - 12V DC ( DC power jack ).<br>- 24V AC ( 2 pin terminal block ).<br>- 802.3af compliant Power over Ethernet ( IEEE 802.3af. Class 3 ).                    |
|                   | Processors                   | TMS320DM368.                                                                                                                                               |
|                   | OS                           | Linux 2.6 kernel.                                                                                                                                          |
|                   | Operating Temperature        | -40°C to 50°C (-40°F to 122°F).                                                                                                                            |
|                   | Approval                     | CE, FCC, RoHS.                                                                                                                                             |
|                   | Dimensions / Package Weights | 123 x 150 mm. ( H x W ) / 2.25 kg                                                                                                                          |
|                   | Accessories included         | - Installation Guide.<br>- CD x 1 (Includes User's Manual).<br>- Power adapter: (Input: 100-240 VAC, 50 / 60 Hz, Output: 12VDC, 1A ).<br>- RJ-45 cable x 1 |

\* Design and specifications are subject to change without notice.

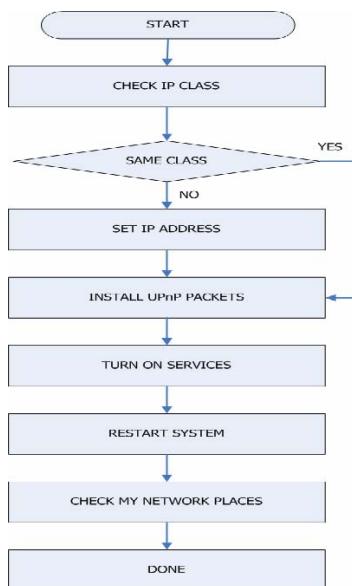
## 7. Client System Requirements

|                    |                                                                       |
|--------------------|-----------------------------------------------------------------------|
| System requirement | Windows XP or higher                                                  |
| Browser            | IE 6.x                                                                |
| Live Monitor       | Max. 16 Split, Real Time REC/ Capture/ Audio/ Live Event/ Full Screen |
| Playback Viewer    | Playback, Time / live event Search / Export (JPEG / AVI)              |
| Settings           | Device/ System/ DDK-1800D management/ web page                        |
| Client PCs         | One DDK-1800D can supports 10 simultaneous client PCs.                |



## APPENDIX 1. –How to run DDK-1800D UPnP

The DDK-1800D<sup>®</sup> supports the UPnP (Universal Plug and Play) protocol which makes it easier for set-up. Follow these steps for UPnP use:



**Figure 1** UPnP Setup Flow Chart

### 1. Check the IP class of your PC

In most case Microsoft Windows<sup>®</sup> will assign an IP address of 169.254.\*.\* automatically with a subnet mask of 255.255.0.0 if the DHCP server is absent. The default IP address of a DDK-1800D<sup>®</sup> is 192.168.1.168 with a subnet mask of 255.255.255.0. There won't be any communication due to different IP class domains and you have to modify the relative settings or the UPnP protocol won't work. It may be necessary to check you IP address. Follow this procedure:

**Step 1:** From the **Start** menu, point to **Settings**, and then click **Control Panel**. See Figure 2.

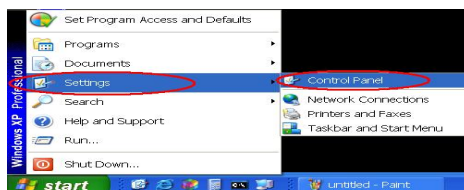


Figure 2

**Step 2:** When **Control Panel** appears, double-click the **Network Connections** icon. The **Network Connections** dialog box appears. See Figure 3.

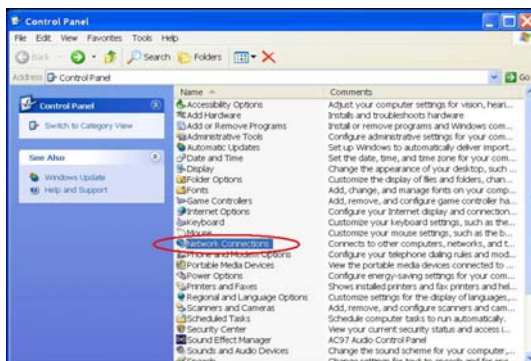


Figure 3

**Step 3:** Click the **Protocols** tab in the **Network Connections** dialog box. See Figure 4.

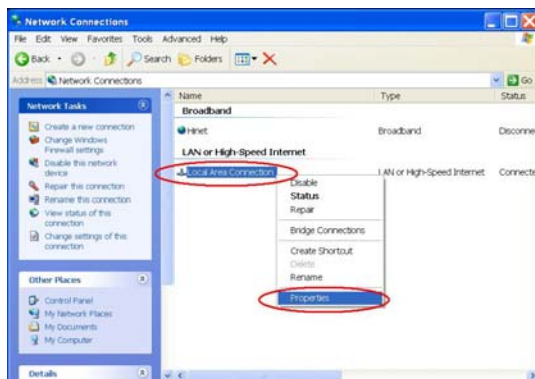


Figure 4

**Step 4:** When the **Local Area Connection Properties** dialog box comes up, choose **Internet Protocol (TCP/IP)** and click **Properties**. See Figure 5.

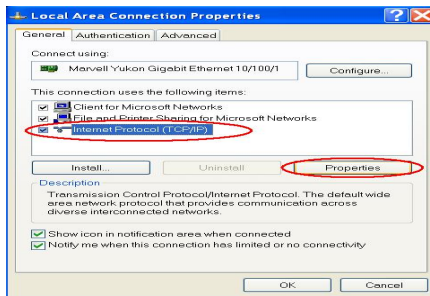


Figure 5

**Step 5:** In the **Internet Protocol (TCP/IP) Properties** dialog box, choose **Use the following IP Address** to indicate that you do not wish to use DHCP, and assign IP Address 192.168.1.200 with Subnet mask 255.255.255.0. Click **OK** when finished. See Figure 6.

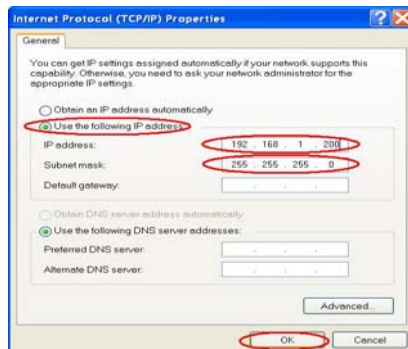


Figure 6

**Step 6:** Choose Close to finish the modification. See Figure 7.

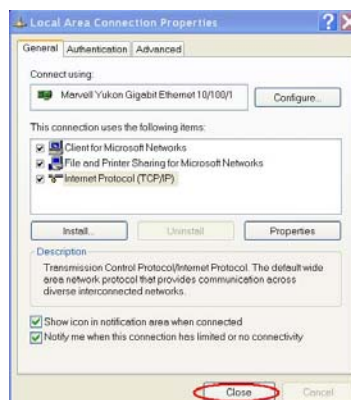


Figure7

## 2. Install UPnP Packets

Follow these steps:

**Step1:** In the **Start** menu, point to **Set Program Access and Defaults** and click. See Figure 8

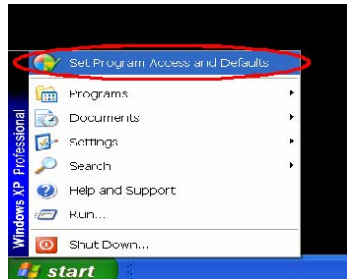


Figure 8

**Step 2:** When the **Add or Remove Programs** dialog box appears, click **Add/Remove Windows Components** button. See Figure 9.

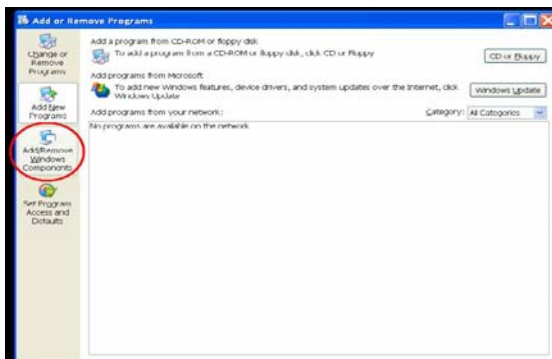


Figure 9

**Step 3:** Check the **Network Services** in the **Windows Component Wizard** dialog box, and then click **Details....** See Figure10.

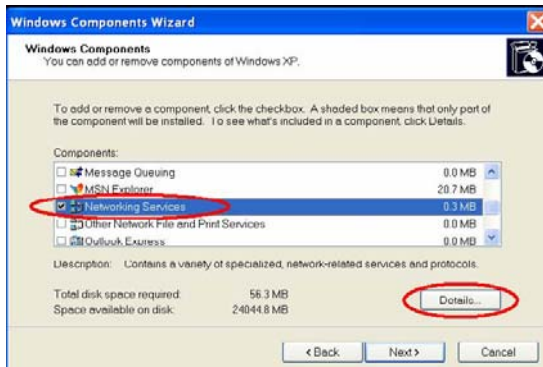


Figure 10

**Step 4: Check UPnP User Interface, and choose OK.** See Figure 11.

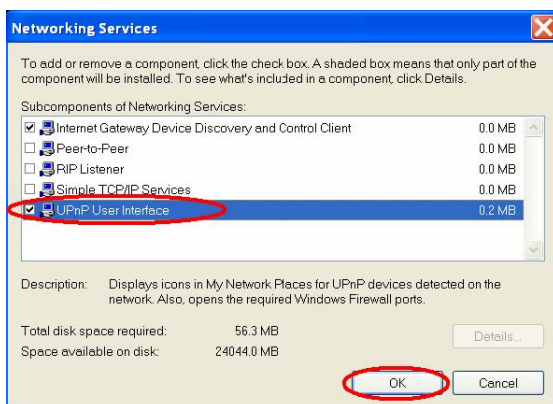


Figure 11

**Step 5: When the original Network Component Wizard dialog box returns, click Next.** See Figure 12.

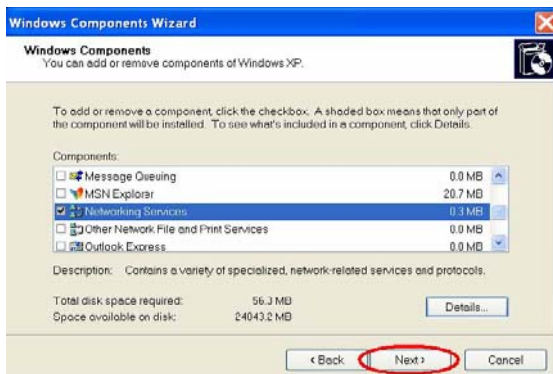


Figure 12

**Step 6:** After about one minute the UPnP installation will be finished. Click finish. See Figure13.



Figure 13

**3. Turn on Services**

After installation services must be tuned on to start UPnP protocol. Follow these procedures:

**Step 1:** In the **Start** menu, point to **Settings**, and then click **Control Panel**. See Figure14.

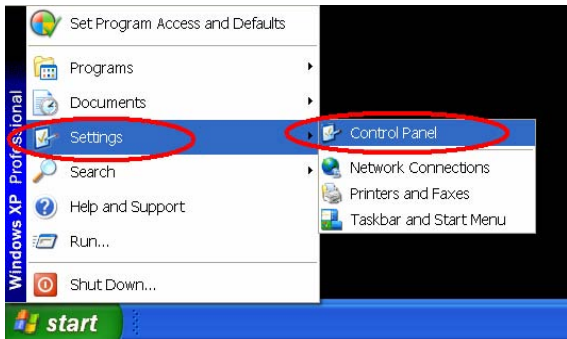


Figure 14

**Step 2:** When **Control Panel** appears, double-click the **Administrative Tools** icon. The **Administrative Tools** dialog box appears. See Figure15.

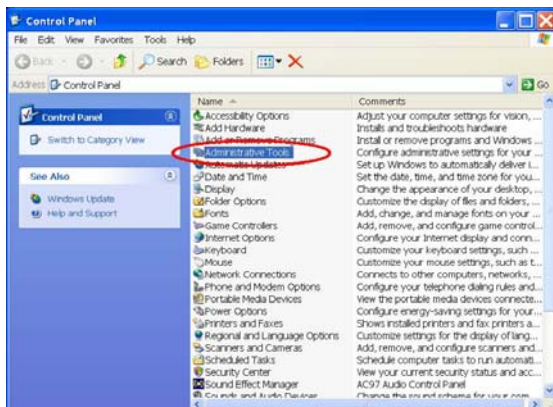


Figure15

**Step 3:** Click the **Services** icon in the **Administrative Tools** dialog box. See Figure16.

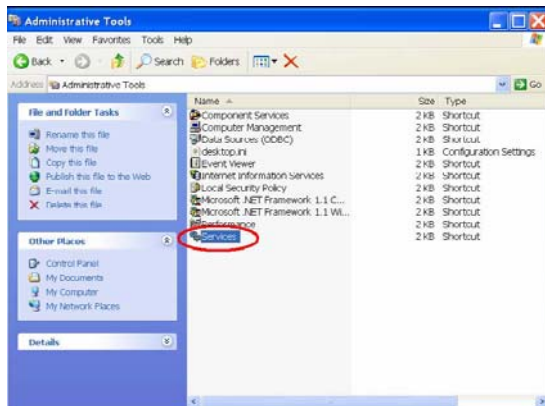


Figure16

**Step 4:** When the **Services** dialog box comes up, double click the **SSDP Discovery Service** icon. See Figure17.

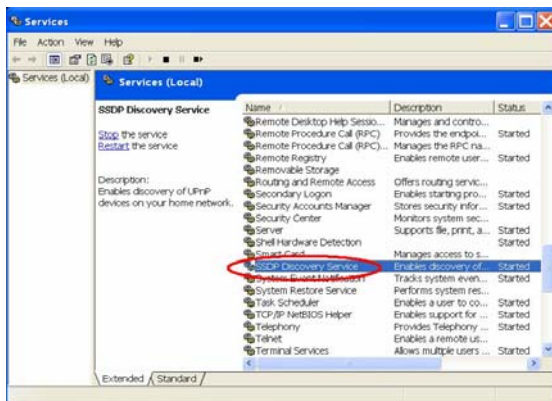


Figure17

**Step 5:** Choose **Automatic** in the **Startup type** and click **OK** to start it. See Figure18.

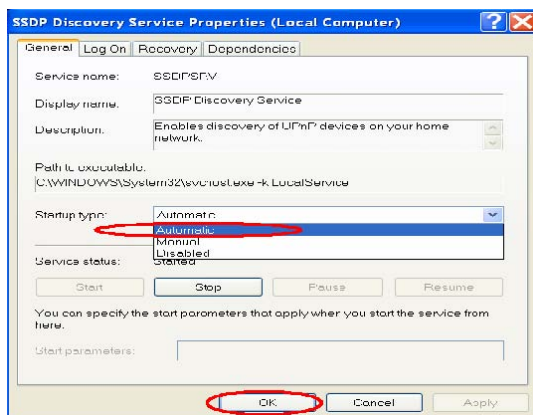


Figure18

**Step 6:** When the **Services** dialog box appears again, double click the **Universal Plug and Play Device Host** icon. See Figure19.



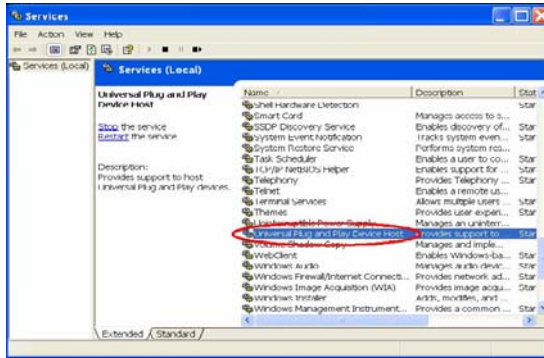


Figure19

**Step 7:** Choose **Automatic** in the Startup type, click the **Start** button, and click **OK**. See Figure20.

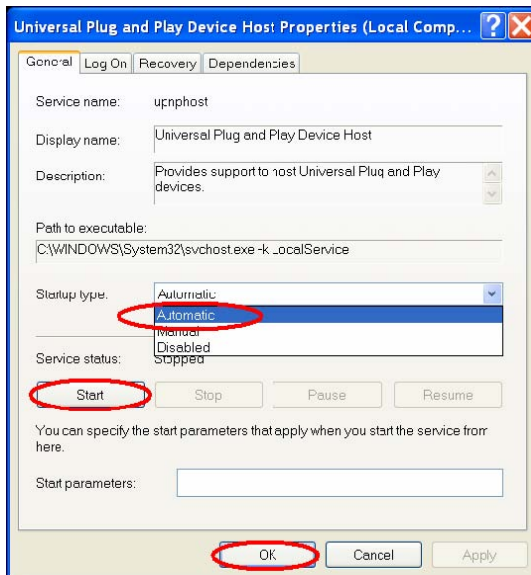


Figure20

**Step 8:** Restart your system.

#### 4. Scan DDK-1800Ds<sup>®</sup> through My Network Place

After you complete the installation and have started services, the UPnP protocol will take effect.

You can scan all DDK-1800Ds<sup>®</sup> in My Network Place, as in Figure21 and Figure22 below.

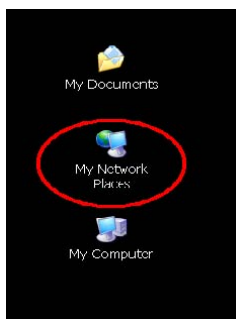


Figure21

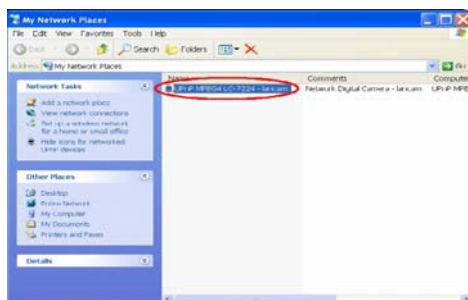


Figure22

Double click the **UPnP DDK-1800D** icon, and the video live stream will pop up automatically without assigning any IP address in Microsoft Internet Explorer<sup>®</sup>.

# APPENDIX 2. –Register as a DDNS member

This chapter provides the user with the basic instructions on how to register a free DDNS service.

## Registering for a DDNS

Enter the URL [www.dyndns.com](http://www.dyndns.com). In the upper right-hand corner of the main page, where there is an item, **"Create Account"**, as shown in Figure 1.



Figure 1

## Create an account

After clicking **"Create Account"**, you will enter the Create Account page. Please complete the form at the bottom of the page to create your account. You will receive an e-mail containing instructions to activate your account. If you do not follow the directions within 48 hours, you will need to recreate your account.

## Set up the DDNS

After creating the account successfully, please enter your user name and password in the upper right-hand corner of the main page to login, as shown in Figure 2. After you login successfully, a text will appear saying **"My Services"**, as shown in Figure 3.

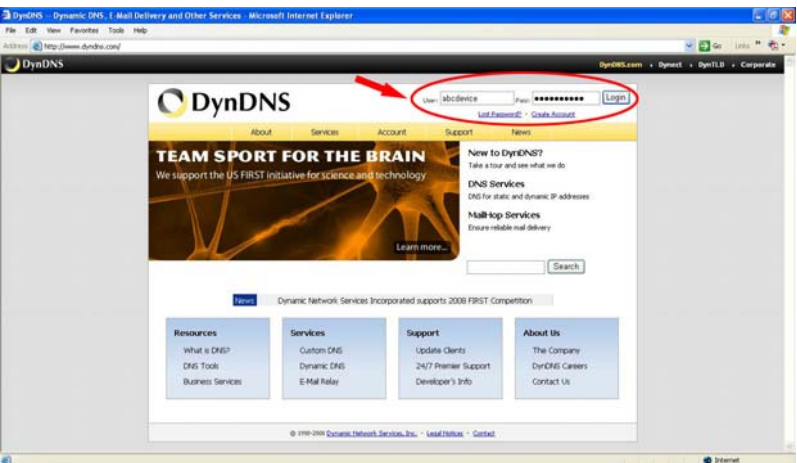


Figure 2

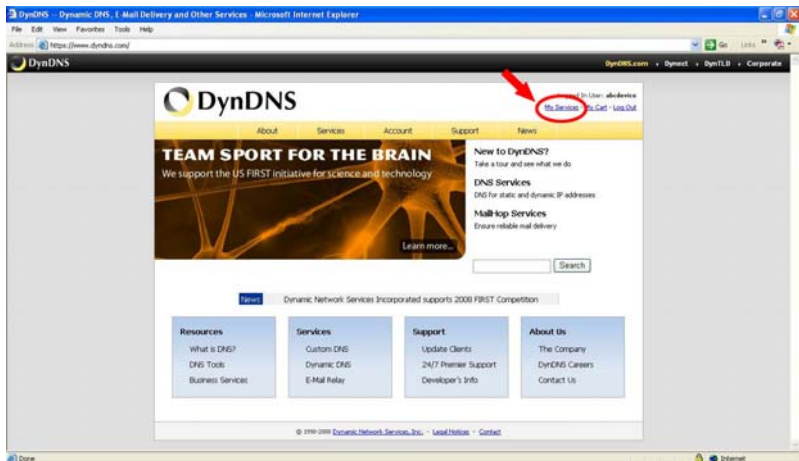


Figure 3

Click "My Services" to enter the service page. Please click the "Add Host Service" item which is below the "My Hosts" item, as shown in Figure 4.

Click "Add Host Service", and its service items will appear. The Add Dynamic DNS Host item helps to add a new DDNS. Each member may have only one free account, and one free account can have only five DDNS.

Click Add Dynamic DNS Host to enter the DDNS setting page as shown in Figure 5.

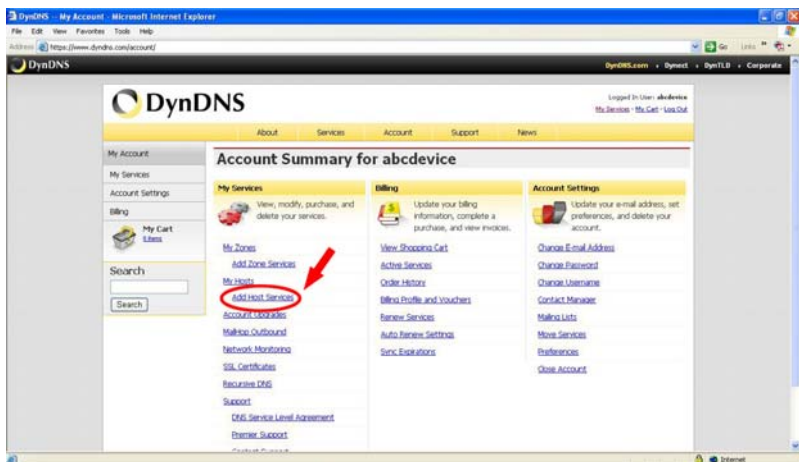


Figure 4

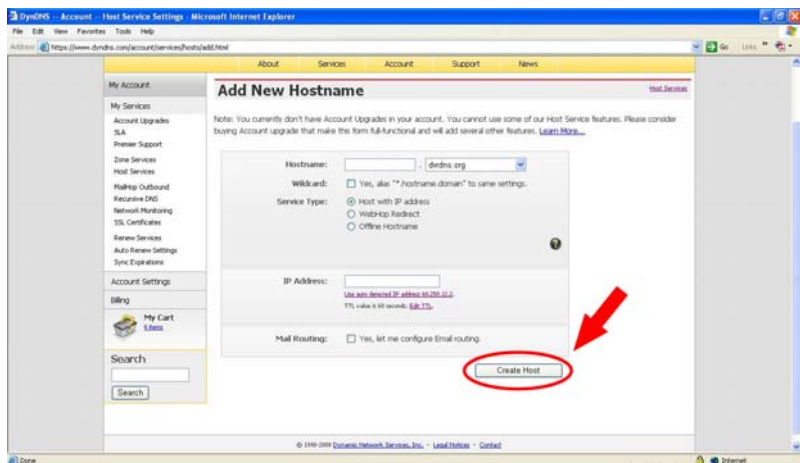


Figure 5

In this page the “Hostname” is set. The user can choose a Sub Hostname from the right-hand side of the Hostname’s drop-down list.

**NOTE: You don’t have to set the “IP Address” in the same format as the DDK-1800D’s IP Address. It will renew the IP Address automatically.**

After finishing this setting, click the “Create Host” button as shown in Figure 5.

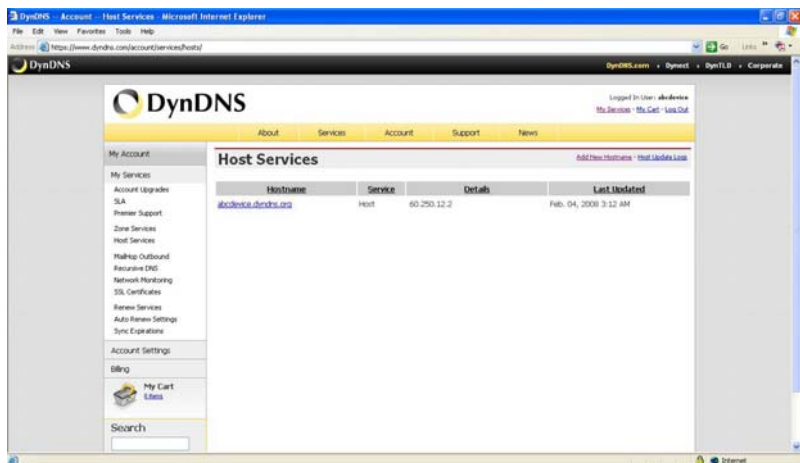


Figure 6