

INSTALLATION & OPERATION MANUAL

DDK-1700BC

Fixed Indoor/Outdoor IP Bullet Camera

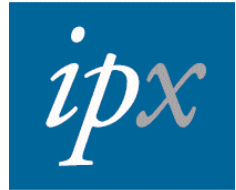


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SAFETY PRECAUTIONS

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

WARNING

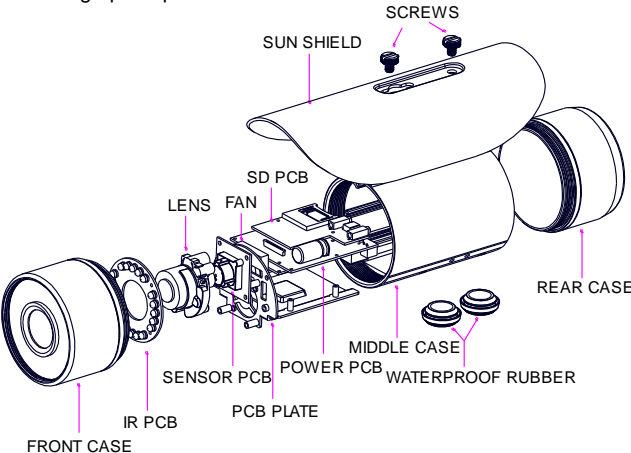
- To prevent fire or shock, avoid exposing this unit to moisture.
- Do not block ventilation openings.
- Never spill liquid of any kind on the camera
- Do not attempt to service the DDK-1700BC yourself. Opening the DDK-1700BC's enclosure may expose the user to electrical shock. Please refer all servicing to your reseller.
- Do not use liquid cleaners or aerosols for cleaning.

1. DESCRIPTION

1.1 PHYSICAL DESCRIPTION

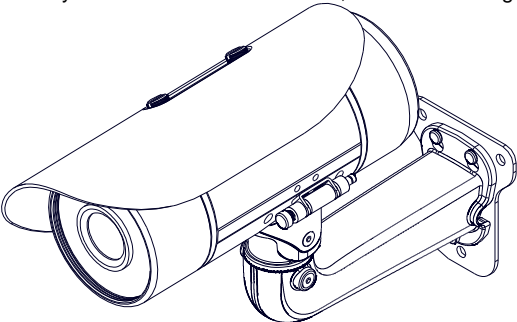
The component parts (the internal view).

Dismantle the bullet IP camera to see its different parts. The picture here shows you the internal component items making up the product.

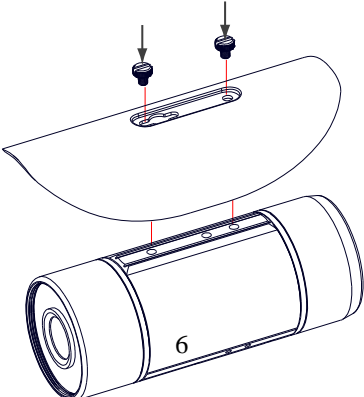


Camera with bracket (the external view).

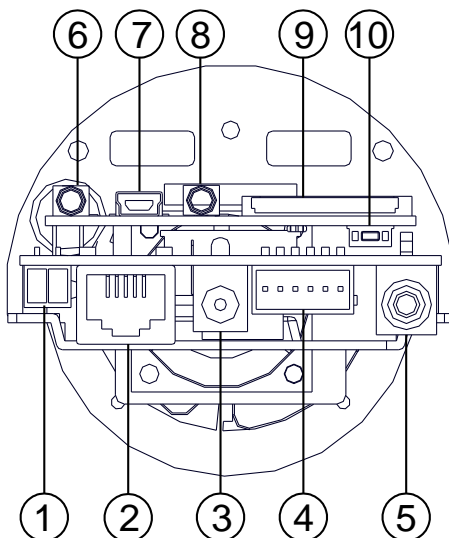
The picture here shows the camera's exterior, with the bracket screwed in and fixed to it. The bracket enables you to easily mount the camera on a wall, turned at the angle you want.



NOTE: Use the 2 screws to screw the sun shield (above) into the 2 extreme holes indicated in the bullet camera (below) to get an unobstructed viewing angle.
Please don't use the middle hole in the camera, as that will block the view.



The PCB board:



1. **Power Input:** AC 24V input that connects to an external power supply.
2. **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.
3. **Plug Inlet:** DC 12V inlet that connects to an external power supply.
4. **GPIO:** 6-PIN connector including **Digital output/input**, **DC output** and **GROUND** for connecting with external devices.
5. **VIDEO OUT Connector:** Connector providing composite video output.
6. **AUDIO IN:** Connector to receive audio input from external devices.
7. **USB port:** Connects DDK-1700BC to USB port on a PC. **AUDIO OUT:** Provides audio to an external device.
8. **SD/ SDHC CARD slot:** Used for updating system software and archiving video. **RESET:** Reset to factory default. (Refer to section 2.4 The Reset Button.)

1.2 The Reset Button

The **Reset Button** will bring the DDK-1700BC 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. VIDEO PROFILE 3
- d. 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

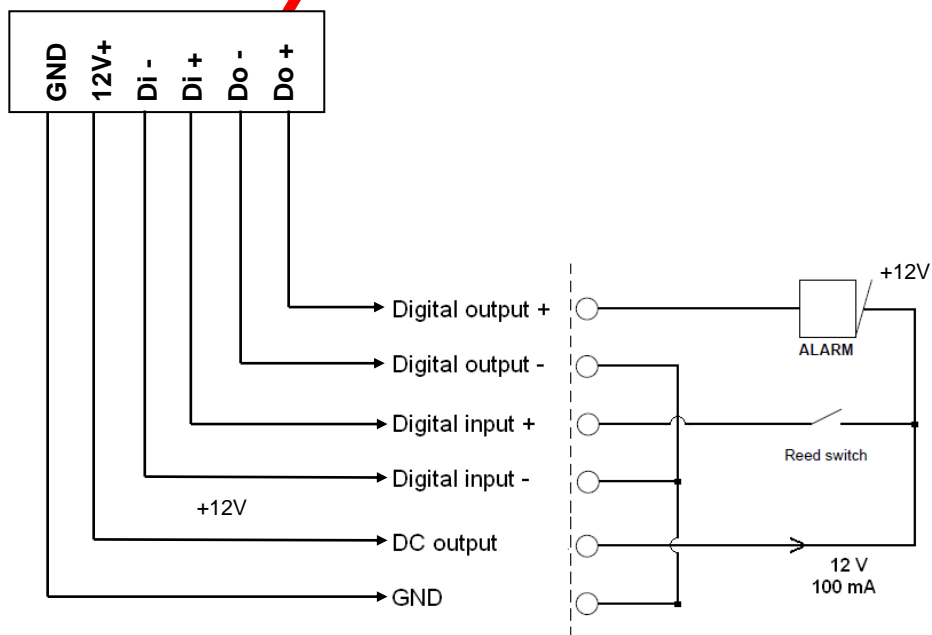
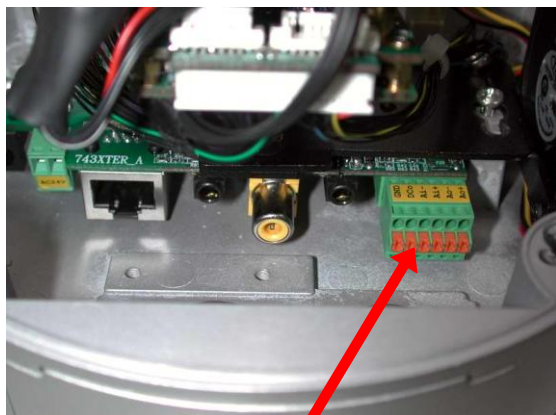
- a. HTTPS

Access List

- a. Allow List
- b. Deny List

1.3 Alarm wiring diagram

DDK-1700BC



1.4 The USB function

The DDK-1700D can provide two separate functions by connecting the DDK-1700D with a PC via the USB connector.

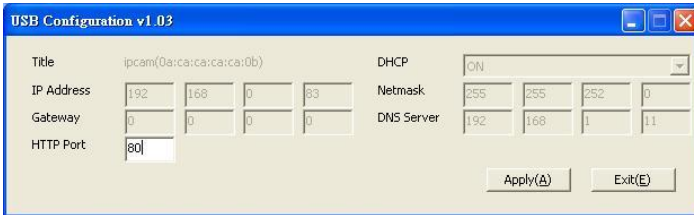
1. Using an SD card as a card reader.

Insert an SD card into the DDK-1700BC and then connect to the PC. You may then transfer files between the SD card and the PC. Once you've connected your DDK-1700BC 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.

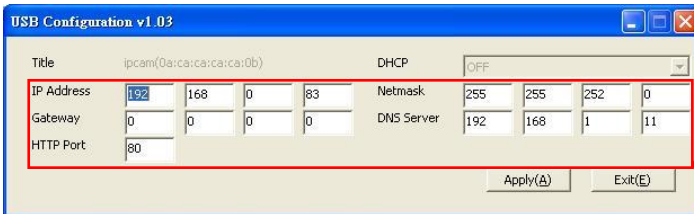
DHCP ON



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. The 'Netmask' field is set to 255.255.252.0. The 'Gateway' field is set to 0.0.0.0. The 'DNS Server' field is set to 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. The 'Title' field contains 'ipcam(0a:ca:ca:ca:ca:0b)'. The 'DHCP' dropdown menu is set to 'OFF'. The 'IP Address' field is set to 192.168.0.83. The 'Netmask' field is set to 255.255.252.0. The 'Gateway' field is set to 0.0.0.0. The 'DNS Server' field is set to 192.168.1.11. The 'HTTP Port' field is set to 80. There are 'Apply(A)' and 'Exit(E)' buttons at the bottom right. A red rectangle highlights the IP Address, Netmask, Gateway, and DNS Server fields. A red arrow points from the text 'Network Setting' to the 'Exit(E)' button.

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-1700BC's Video Out connector can be connected to a monitor with via RCA connection.

When connected you will see information on the monitor screen, including the DDK-1700D's factory default IP address (192.168.1.168). The DDK-1700D's IP address will only appear if there is a connection between the DDK-1700D and another device.

2.1 Hardware Installation

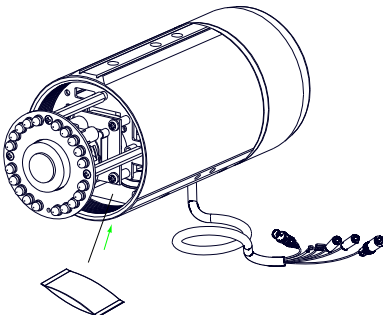
1. If using external power, connect power adapter to the DDK-1700BC.
2. Connect network cable to the DDK-1700BC's RJ45 connection.
3. Confirm the correct network connection status.
4. Enter DDK-1700BC's IP address into your browser.

2.3 Placing a Desiccant Pack Inside the DDK-1700BC

The DDK-1700BC 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-1700BC 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-1700BC.
2. Use two-sided adhesive tape to attach the desiccant pack.
3. Reattach the cover of the DDK-1700BC.



2.4 Updating System Software

If the system software of the DDK-1700BC 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 **UPGRADE** on the SD card if it does not already exist.
2. Copy the file UPDATE.BIN to the **UPGRADE** -directory.
3. Shut down DDK-1700BC's power.
4. Insert the SD CARD into the DDK-1700BC.
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-1700BC 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-1700BC when the update processes 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-1700BC is suddenly lost in step 7, remove the SD card first and then power the camera on. If the DDK-1700BC 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

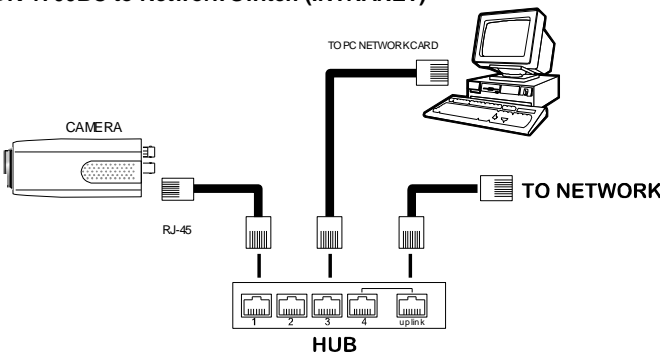
Physical specifications of RJ-45 cable for Ethernet

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-1700BC to Computer connection



3.1.2 DDK-1700BC to Network Switch (INTRANET)



3.2 Network Settings Configuration

3.2.1 Enabling DHCP Function

The DDK-1700BC's default setting is DHCP ON. An IP address can be obtained automatically from a DHCP server. This function will only work if the LAN has a DHCP server.

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-1700BC 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-1700BC 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-1700BC 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-1700BC 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.

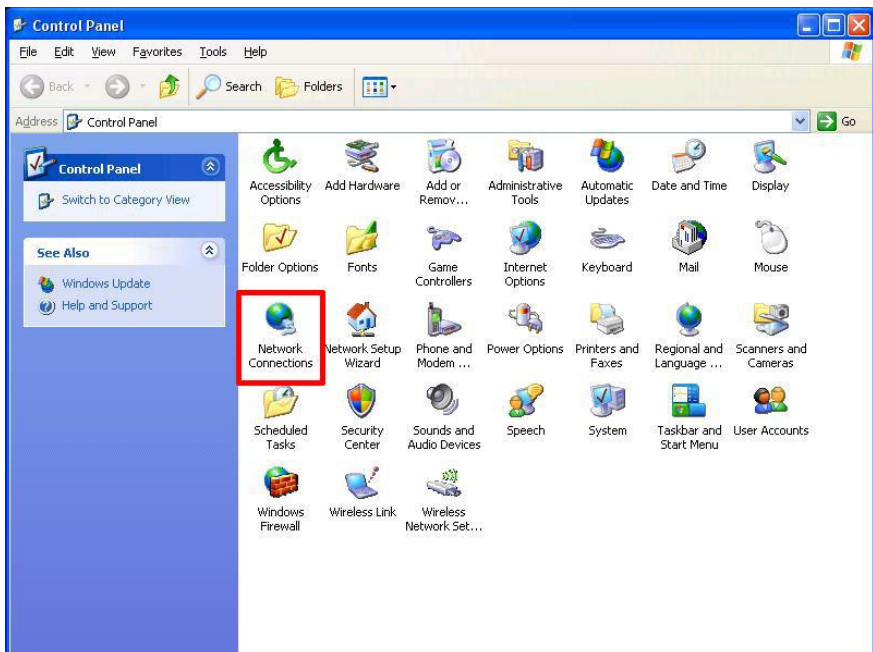
3.3 TCP/IP Communication Software

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

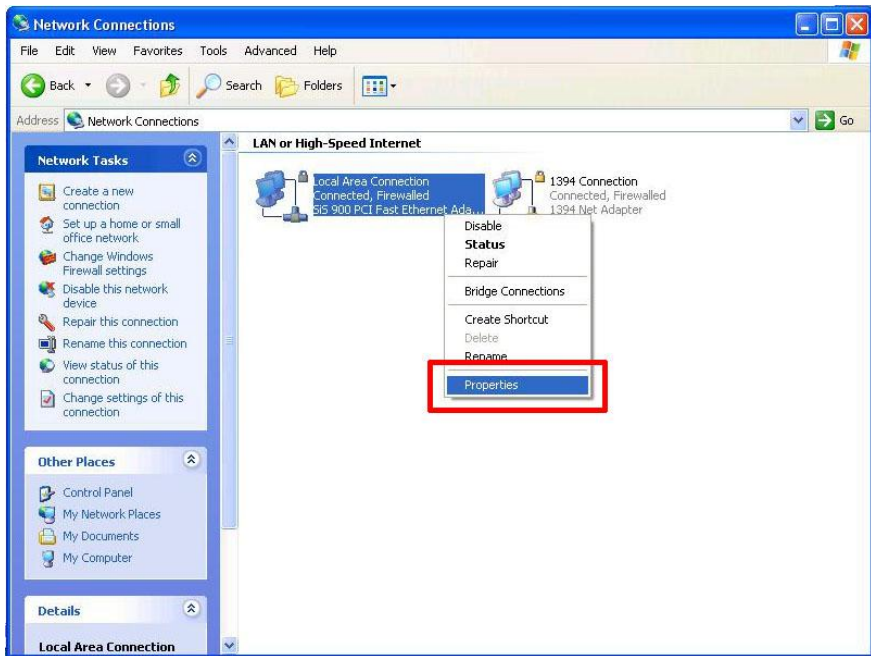
1. Click **Start**, and then click **Control Panel**.



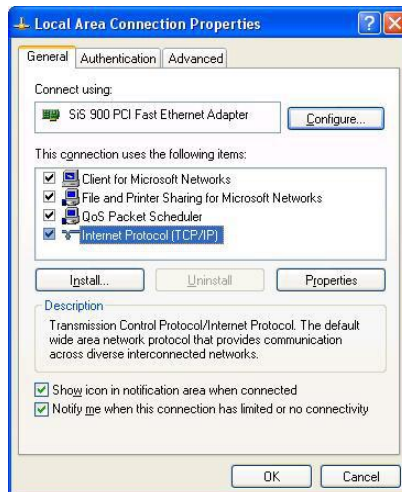
2. Double click the **Network Connections** icon



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

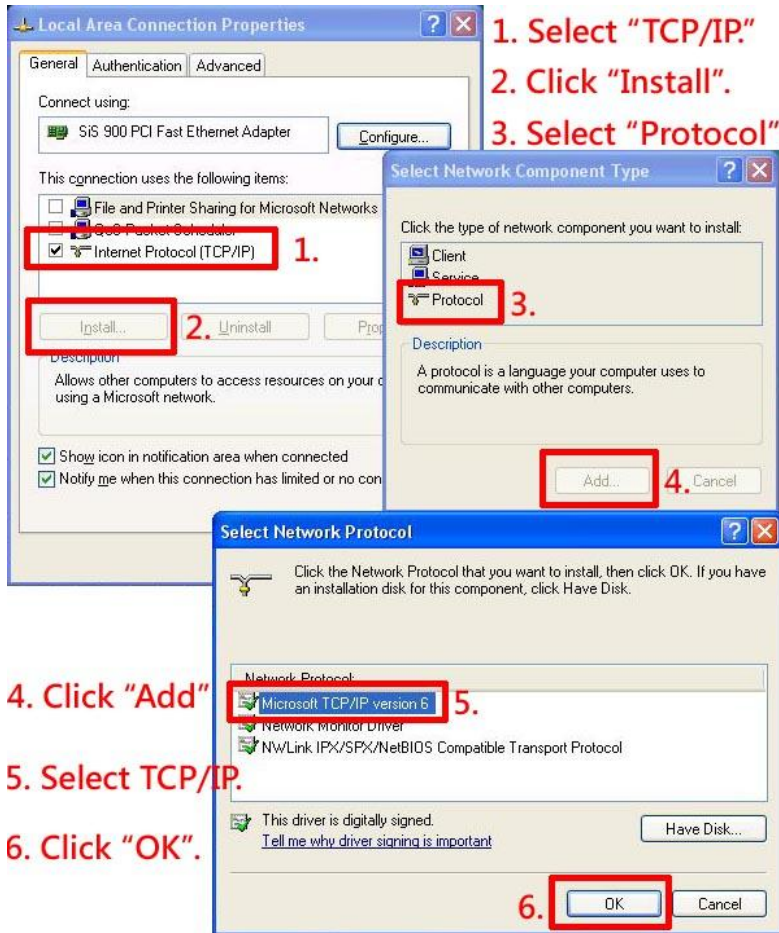


4. On the **General** tab, check if the Internet Protocol (TCP/IP) is included in the list. If the TCP/IP is included, proceed to section 3.5. If it is not included, please follow section 3.4 to install the TCP/IP.



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.

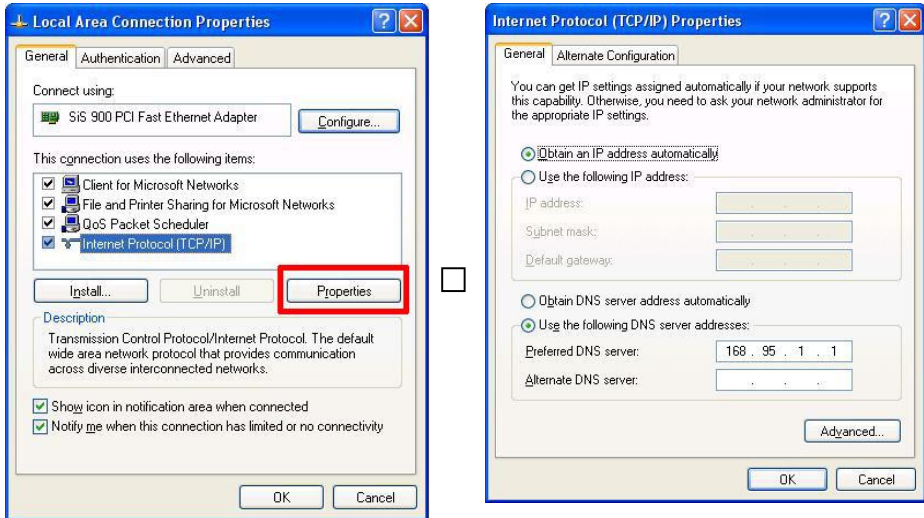


3.5 TCP/IP configuration setting

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-1700BC 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

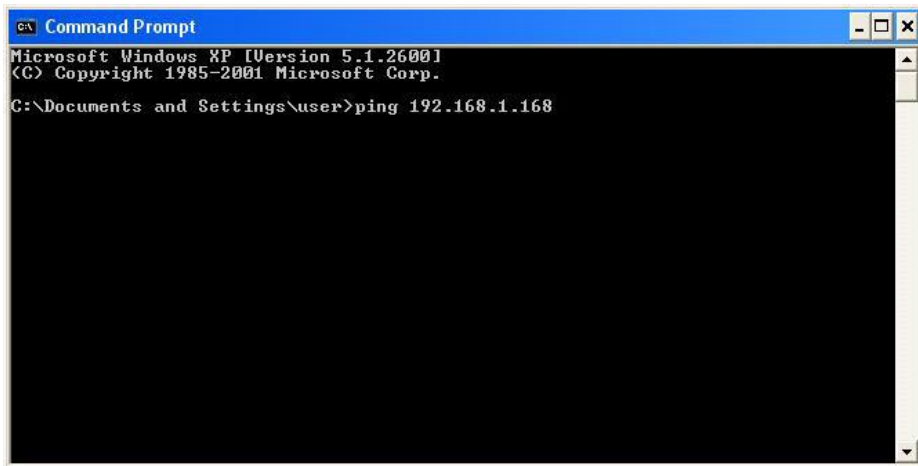
With the previous settings, follow the instructions below to ensure whether you have established the connection successfully.

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



2. Enter **ping XXX.XXX.XXX.XXX** (the DDK-1700BC's IP address), then enter. (See the sample screen below).

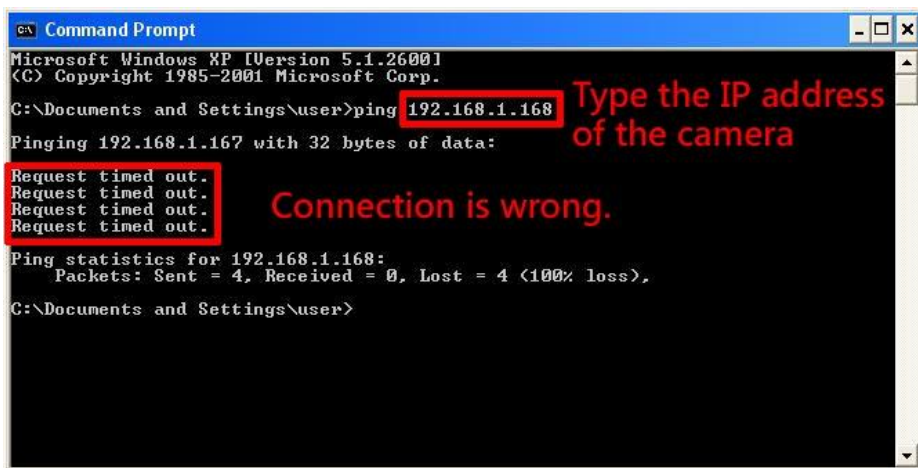
**** This is the IP address for a DDK-1700BC that is assigned for the connected DDK-1700BC.**



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

C:\Documents and Settings\user>ping 192.168.1.168
```

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>
```

Type the IP address of the camera

Connection is wrong.

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

```

C:\ Command Prompt
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>_

```

Type the IP address
of the camera

Connection is
successful

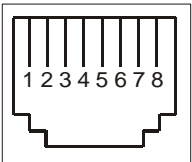
4. Operating Instructions for Software and Network Connection

The DDK-1700BC 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-1700BC

1. Start up your Web Browser, and then follow the steps below to connect the DDK-1700BC.
2. Click on the URL box at the top of the window.
3. Enter the URL address of the DDK-1700BC 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.

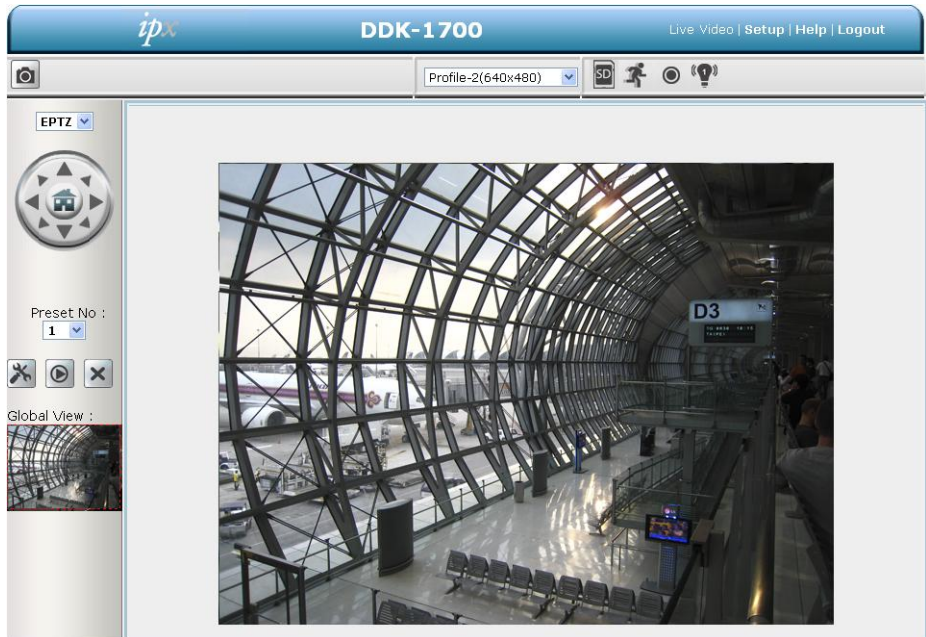
NOTE: The page headlined "Enter Network Password" is shown below. Enter the user name and password of the DDK-1700BC. **NOTE:** Once authenticated, the login page will not appear again unless you close and reconnect.










4.1.2 Live Video

Live video from the DDK-1700BC 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).













- Click 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:

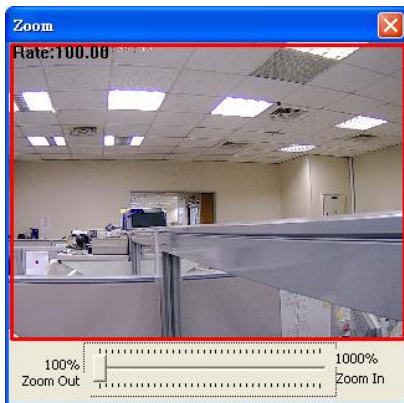
Select from the thumbnail options for taking snapshots, setting-up a Storage Folder, selecting Full Screen mode, Recording, Listening, Talking and Zooming.



- 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.
- Zoom: Click the  button to bring up a popup “Zoom” window. The icon will change to a blue color  when working properly. Move the scrollbar right or left to zoom in or zoom out on the Live View and the red “Active Frame” will be reduced or enlarged. You can drag the “Active Frame” to a desired position to see the detail of the live image.



- EPTZ Digital Zoom mode. This mode utilizes the megapixel resolution of the DDK-1700BC 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-1700BC.



The screenshot shows the 'Welcome to setup wizard - internet connection setup' window for the DDK-1700. 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 are 'Back', 'Next', and 'Cancel' buttons.

ipx **DDK-1700**

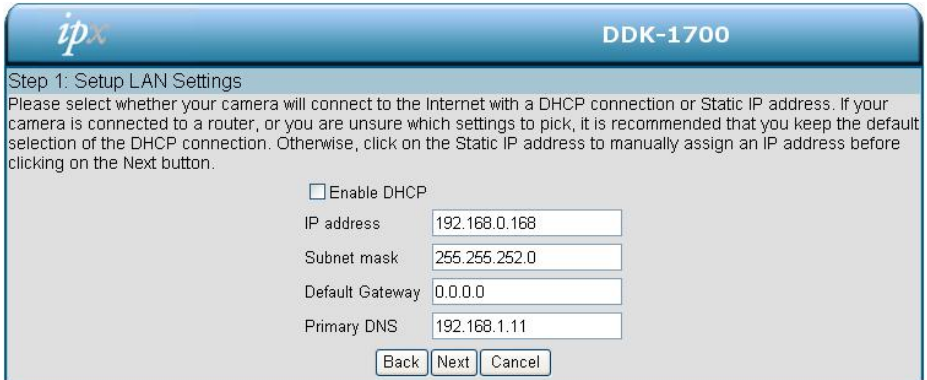
Welcome to setup wizard - internet connection setup

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' window for the DDK-1700. It provides instructions on selecting between DHCP and Static IP. Below the instructions are checkboxes for 'Enable DHCP' and input fields for 'IP address', 'Subnet mask', 'Default Gateway', and 'Primary DNS'. At the bottom are 'Back', 'Next', and 'Cancel' buttons.

ipx **DDK-1700**

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

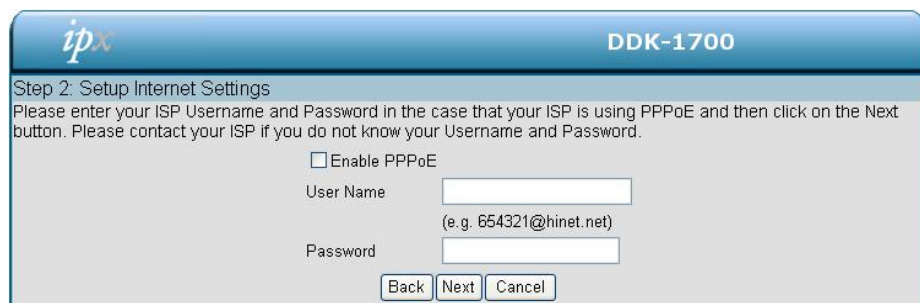
Default Gateway

Primary DNS

The DDK-1700BC default setting is DHCP **On**. Use DHCP protocol if DHCP is supported on your LAN. The DDK-1700BC will obtain an IP address automatically from the DHCP server. Alternatively you can turn the DHCP **Off** to configure the DDK-1700BC with a static IP address. The DDK-1700BC's default IP is **192.168.1.168**. If your Internet Service Provider has provided connection settings, or you wish to set a static address within your network, enter the information for your static IP settings.

Click **Next** to continue.

Step 2:



Step 2: Setup Internet Settings

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.

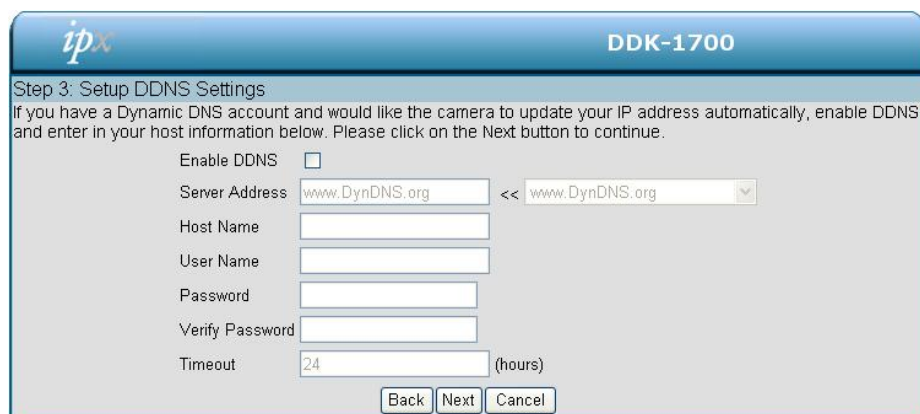
☐ Enable PPPoE

User Name
(e.g. 654321@hinet.net)

Password

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

Step 3:



Step 3: Setup DDNS Settings

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.

Enable DDNS ☐

Server Address <<

Host Name

User Name

Password

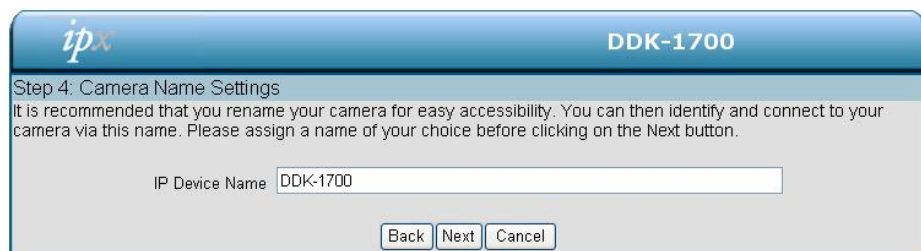
Verify Password

Timeout (hours)

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

Click **Next** to continue.

Step 4:



The screenshot shows the 'ipx' logo and 'DDK-1700' model name at the top. Below, the title 'Step 4: Camera Name Settings' is followed by a paragraph: 'It is recommended that you rename your camera for easy accessibility. You can then identify and connect to your camera via this name. Please assign a name of your choice before clicking on the Next button.' A text input field labeled 'IP Device Name' contains 'DDK-1700'. At the bottom are three buttons: 'Back', 'Next', and 'Cancel'.

Enter a name for your DDK-1700BC and click **Next** to continue.

Step5:



The screenshot shows the 'ipx' logo and 'DDK-1700' model name at the top. Below, the title 'Step 5: Setup Time Zone' is followed by a paragraph: 'Please configure the correct time to ensure that all events are triggered, captured and scheduled at the correct time and day and then click on the Next button.' A 'Time Zone' dropdown menu is set to '(GMT-05:00) Bogota, Lima, Quito, Rio Branco'. Below it is an 'Enable Daylight Saving' checkbox, which is unchecked. At the bottom are three buttons: 'Back', 'Next', and 'Cancel'.

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:



The screenshot shows the 'ipx' logo and 'DDK-1700' model name at the top. Below, the title 'Step 6: Setup complete' is followed by a paragraph: 'Below is a summary of your camera settings. Click on the Back button to review or modify settings or click on the Apply button if all settings are correct. It is recommended you note down these settings in order to access your camera on the network or via your web browser.' A summary table is displayed:

IP Address	192.168.0.168
IP Device Name	DDK-1700D
Time Zone	(GMT-05:00) Bogota, Lima, Quito, Rio Branco
DDNS	Disable
PPPoE	Disable

At the bottom are three buttons: 'Back', 'Apply', and 'Cancel'.

If **DHCP** is selected, a summary of the DDK-1700BC'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 Change 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.

The screenshot displays the web interface for the DDK-1700D camera. The top navigation bar includes 'Live Video', 'Setup', 'Wizard', and 'Help'. The 'Image' tab is selected in the sidebar. The main area is titled 'IMAGE SETUP' and contains a 'VIEWER TYPE' section with radio buttons for 'AJAX' and 'ActiveX' (selected). Below this is the 'IMAGE SETTINGS' section, which features a live video preview of an airport terminal. To the right of the preview are various settings: 'Metering Method' (Center-weighted), 'Exposure Mode' (Indoor) with 'Max Gain' (24 dB), 'Denoise' (0), 'Mirror' (Off), 'Flip' (Off), 'White Balance' (Auto) with a 'Save' button, and sliders for 'Brightness', 'Contrast', 'Saturation', and 'Sharpness' (all at 128). A 'Reset Default' button is located below these settings. The 'DEVICE SETTING' section at the bottom includes a 'Device Name' field (DDK-1700D), an 'Enable OSD' checkbox, a 'Timestamp Label' field (DDK-1700D), and a 'Timestamp Location' dropdown (UPPER LEFT). A 'Submit' button is at the bottom right.

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

3. **IMAGE SETTINGS.** Includes “AGC”, “Exposure Time“, “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:

AGC	Automatic gain control is abbreviated AGC. Automatic gain control is a feature where the amount of gain is adjusted automatically based upon the strength of the incoming signal. Weaker signals receive more gain; stronger signals receive less gain or none at all.
Exposure Time	Exposure time is controlled in a DDK-1700BC by shutter speed and the illumination level by the lens aperture. This option allows the user to choose the exposure time of the DDK-1700BC between “Auto”, “1/2000”, “1/1500”, “1/1000”, “1/750”, “1/500”, “1/250”, “1/120”, “1/60”, “1/30”, “1/15”, “1/7.5”, “1/4” and “1/2”.
Mirror:	Reverses image display
Flip:	To flip the DDK-1700BC’s image 180 degrees.
White Balance	White balance corrects unnatural color shades.. Select your options from “Auto”, “Outdoor”, “Indoor” and “Fluorescent”.
Brightness:	Setting to compensate for backlighting
Contrast:	Controls color intensity/strength.
Saturation:	Controls the strength of colors from black and white to bold.
Sharpness	Sets clarity of detail in images.
Timestamp Location:	Click to choose location
Submit:	Click to save settings.

- 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-1700 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: 1440x1080

Viewer window area: 1440x1080

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. Set the “Mode”, “Frame size”, “Viewer window area”, “Maximum frame rate” and “Video quality” of each Video Profile.
3. Set the details of the audio functions.

4. Select 50 Hz or 60Hz Power.
5. Click on the **Submit** button to save settings.





Functions:

Mode:	Choose the video format from H.264, JPEG or MPEG4 compression.
Frame size:	Set video resolution
Viewer window area:	Sets Live Viewer resolution
Intra Frame Period:	Setting for compression frequency between frames
Maximum frame rate:	Sets number of frames per second
Video quality:	Sets video stream to constant bit rate or constant quality
Audio Settings:	Switches microphone on/off and adjusts volume.
Encoding:	Setting for type of audio encoding
Audio Mechanism Setting:	Check to activate this function and select MIC or Line In.
Enable audio out:	Check to activate this function and set the Audio out volume level.
Power Line	Select 50 Hz or 60Hz.

NOTE:

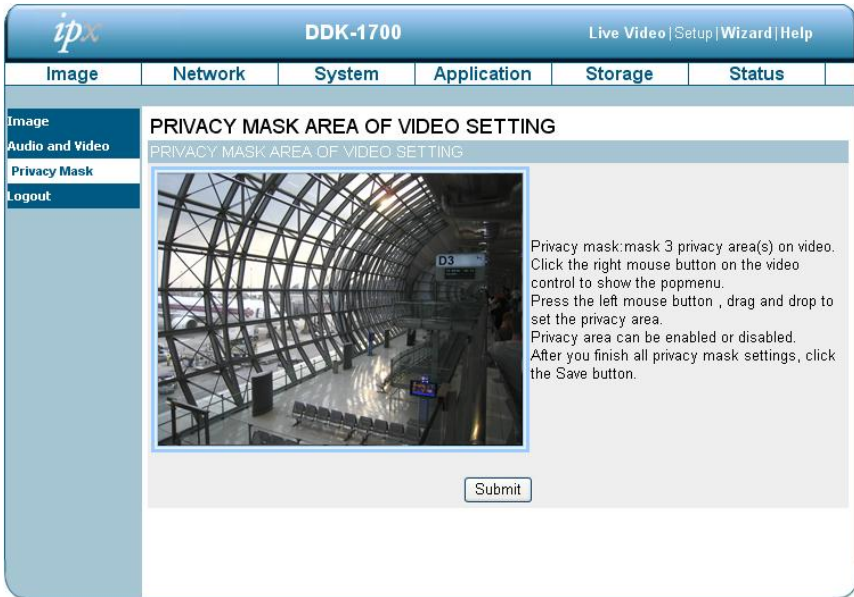
Audio In/Out:

Follow the steps.

1. Connect DDK-1700BC 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-1700BC 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-1700BC--Audio in; connect speaker to PC--AUDIO Out.
7. Click "Listen" in the webpage  → ; the Mic will send an audio signal to the DDK-1700BC.
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-1700BC'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.

- 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-1700BC to be configured as a UPnP device on your network.
Enable UPnP port forwarding:	Enable this setting to allow the DDK-1700BC to add port forwarding entries into your router automatically.

- Changing the PPPoE Network Setting.

The Network page has a PPPoE icon on 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.

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:

PPPoE Setting	If you use the DDK-1700BC 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-1700BC is behind a router or a gateway you do not need to configure this setting.
Username:	Enter Username here
Password:	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 web interface for the DDK-1700D device. At the top, there is a blue header bar with the 'ipx' logo on the left, 'DDK-1700D' 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 sections for 'HTTP', 'HTTPS', and 'RTSP'. The 'HTTP' section has a text label 'HTTP port' followed by a text input field containing '80'. The 'HTTPS' section has a text label 'HTTPS port' followed by a text input field containing '443'. The 'RTSP' section has a text label 'RTSP port' followed by a text input field containing '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 containing 'live1.sdp' and 'live2.sdp' respectively. 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-1700BC, use the following RTSP URL command to request transmission of the streaming data.

Functions

HTTP Port	HTTP ports allow you to connect to the DDK-1700BC 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'
HTTPS Port	The HTTPS Port connects the DDK-1700BC with a PC via a secure web browser.
RTSP Port	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-1700BC.

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.

ipx

DDK-1700

Live Video | Setup | Wizard | Help

Image	Network	System	Application	Storage	Status
Network	TRAFFIC				
PPPoE	TRAFFIC				
Port Detail	Maximum Upload Bandwidth: <input type="text" value="0"/> Kilo Bytes Per Second				
Traffic	Maximum Download Bandwidth: <input type="text" value="0"/> Kilo Bytes Per Second				
Dynamic DNS	* Due to TCP transmission protection, we have a minimal threshold in QoS control (16KB) to avoid the sockets lock up. Too few bandwidth (less than 16KB per second) will cause some socket disconnect easily.				
HTTPS	<div>Submit</div>				
Access List					
Logout					

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:

Maximum Upload Bandwidth:	Enter in a range from 0 to 102400.
Maximum Download Bandwidth:	Enter in a range from 0 to 102400.
Submit:	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-1700 router. At the top, there's a blue header with the 'ipx' logo, the model 'DDK-1700', 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 has several fields: 'Enable DDNS' with an unchecked checkbox, 'Server Address' with a text box containing 'www.DynDNS.org' and a dropdown menu also showing 'www.DynDNS.org', 'Host Name' with an empty text box, 'User Name' with an empty text box, 'Password' with an empty text box, 'Verify Password' with an empty text box, 'Timeout' with a text box containing '24' and '(hours)' next to it, and 'Status' with the text 'Inactive'. At the bottom right of the settings area is a 'Submit' button.

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

Enable DDNS Function:	Check to activate this function.
DNS	(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.
Server Address:	Select your Dynamic DNS provider from the pull down menu or enter the server address manually.
Host Name:	Enter the host name of the DDNS server.
User name:	Enter your user name or e-mail used to connect to the DDNS
Password:	Enter your password used to connect to the DDNS server.
Verify Password	Enter your password again to connect to the DDNS server.
Timeout:	Enter the DNS Timeout values for registering the IP address.
Status:	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-1700 web interface. The top header is blue with the 'ipx' logo on the left, 'DDK-1700' 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 sub-menu with options: 'Network', 'PPPoE', 'Port Detail', 'Traffic', 'Dynamic DNS', 'HTTPS' (which is 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 section 'Create certificate settings' with three radio buttons: 'Create self-signed certificate automatically' (which is selected), 'Create self-signed certificate manually', and 'Create certificate request and install'. There is a 'Create certificate:' label and a 'Create' button. Below that is a section 'CERTIFICATE INFORMATION' with 'Status' set to '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-1700BC. 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.

1. On the “Network” page at the upper left is the “Access List” icon. Follow the steps below to change the Access List settings. Click on the **Access List** button on the upper left menu to enter the “Access List” page.

The screenshot shows the DDK-1700 web interface. The top navigation bar includes 'Image', 'Network', 'System', 'Application', 'Storage', and 'Status'. The 'Network' tab is selected, and the 'Access List' option is highlighted in the left sidebar. The main area displays the 'ACCESS LIST' configuration. It is divided into 'ALLOW LIST' and 'DENY LIST' sections. Each section contains three input fields: 'Start IP address', 'End IP address', and a 'Delete allow list' (or 'Delete deny list') dropdown. To the right of these fields are '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-1700BC.
End IP Address	The ending IP Address of the devices (such as a computer) which have permission to access the DDK-1700BC.
Delete Allow List	Removes the customized settings from the Permission List.
Deny List:	
Start IP Address	The starting IP Address of the devices (such as a computer) which don't

	have permission to access the DDK-1700BC.
End IP Address	The ending IP Address of the devices (such as a computer) which don't have permission to access the DDK-1700BC.
Delete Deny List	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. t

- 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-1700BC.

DDK-1700 Live Video | Setup | Wizard | Help

Image **Network** **System** **Application** **Storage** **Status**

Time and Date

TIME AND DATE

TIME CONFIGURATION

Time Zone: (GMT-05:00) Bogota, Lima, Quito, Rio Branco

Time Format: DD/MM/YYYY

☐ Enable Daylight Saving

☒ Auto Daylight Saving

☐ Set date and time manually

Offset: +2:00

Start time: Month 5, Week Day of week 1, Sunday, Hour 0, Minutes 00

End time: Month 10, Week Day of week 1, Sunday, Hour 0, Minutes 00

AUTOMATIC TIME CONFIGURATION

☐ Synchronize with NTP Server

NTP Server: pool.ntp.org

SET DATE AND TIME MANUALLY

☐ Set date and time manually

Copy Your Computer's Time Settings

Year 2011, Month 5, Day 23, Hour 1, Minute 1, Second 14

Submit

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:

Time Zone:	Select time zone from the drop-down menu.
Enable Daylight Saving:	Select to enable daylight saving time.
Auto Daylight Saving:	Select this option to configure Daylight Saving setting automatically.
Set date and time manually:	Select this option to configure Daylight Saving date and time manually.
Offset:	Sets the amount of time to be added or removed when Daylight Saving is enabled.
Synchronize with NTP server:	Enable this feature to obtain time configuration automatically from the NTP server.
NTP Server:	The Network Time Protocol (NTP) synchronizes the device with an Internet time server. Choose one close to your location.
Set the date and time manually:	Allows for setting time and date manually.
Copy Your Computer's Time Settings:	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 'System' settings page for the DDK-1700 device. The left sidebar contains navigation links: Time and Date, DI and DO (selected), ICR, User, Maintenance, Upgrade Firmware, and Logout. The main content area is titled 'DI AND DO' and contains the following settings:

- DI AND DO** section:
 - Digital Input 1: The active state is **N.O.** (selected in a dropdown); the current state detected is **Open**.
 - Digital Output 1: The active state is **N.O.** (selected in a dropdown).
- LED** section:
 - LED: ☒ On ☐ Off
- VIDEO OUTPUT** section:
 - 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. Click the **Submit** button to submit the new user’s settings.

Functions:

Digital Input:	Select “N.O.” or “N.C.” as the active state of the Digital Input, in order to use the GPIO connector function.
Digital Output:	Select “N.O.” or “N.C.” as the active state of the Digital Output, in order to use the GPIO connector function.
LED	Select “ON” or “OFF” to turn this function on and off.

● Changing the System Settings — ICR.

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

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

ipx

DDK-1700

Live Video | Setup | Wizard | Help

Image

Network

System

Application

Storage

Status

Time and Date

DI and DO

ICR

User

Maintenance

Upgrade Firmware

Logout

ICR

IR _ Cut Removable filters triggering condition:

☒ Automatic

☐ Day mode

☐ Night mode

☐ Schedule mode

Day mode(24hr)

From 07 00 To 18 00

IR LIGHT

IR LIGHT

☐ Off

☐ On

☒ Sync. With ICR

☐ Schedule

IR Light On(24hr)

From 07 00 To 18 00

Submit

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:

Automatic	Day/Night mode will change automatically depending on lighting conditions.
Day mode	Day mode disables the IR Cut Filter.
Night mode	Night mode enables the IR Cut Filter.
Schedule mode	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-1700 web interface. The top header includes the 'ipx' logo, the model name 'DDK-1700', and links for 'Live Video', 'Setup', 'Wizard', and 'Help'. A navigation bar below the header contains tabs for 'Image', 'Network', 'System' (which is active), 'Application', 'Storage', and 'Status'. A sidebar on the left lists various system functions, with 'User' selected. The main area displays the 'USER' management page. It features a 'USER LIST' table with a single user 'root:Admin'. A 'Delete User' button is positioned to the right of the table. Below the table is the 'ADD/MODIFY USER' section, which includes input fields for 'User Name', 'Password', and 'Confirm', along with radio buttons for selecting 'Authority' (Admin, Operator, or Viewer). An 'Add/Modify User' button is located at the bottom of this section.

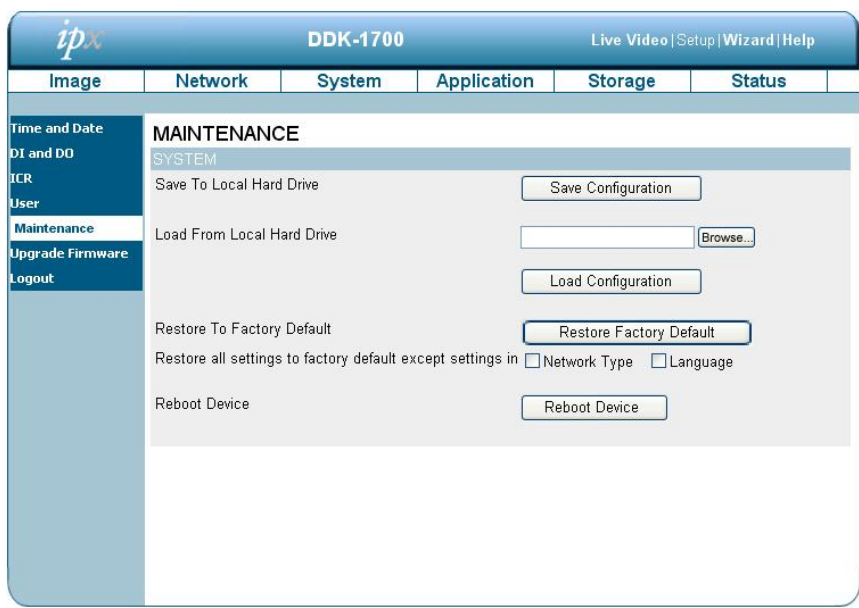
2. Add, modify or delete a user's data.
3. Click **Add/ Modify User** button to save new user settings.
4. Click the **Home** button to return to the home page.

Functions:

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

Save Configuration:	Click “Save Configuration” to save the configuration files to local hard drive.
Load Configuration:	Browse and click on “Load Configuration” to load configuration files to the local hard drive.
Restore Factory Defaults:	Click “Restore Factory Defaults” to restore factory defaults. You may browse and load saved configuration files to restore saved settings
Reboot Device:	Click “Reboot Device” to reboot the device. This option will restart the DDK-1700BC.

- 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 DDK-1700 web interface. At the top, there is a blue header bar with the 'ipx' logo on the left, 'DDK-1700' 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 'System' tab is selected. On the left side of the 'System' tab, there is a vertical menu with options: 'Time and Date', 'DI and DO', '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: 2.00' and 'Current Product Name: DDK-1700'. 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-1700BC 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 Setting” page.


The screenshot shows a web interface for a device labeled "DDK-1700". At the top, there is a navigation bar with the "ipx" logo on the left and links for "Live Video", "Setup", "Wizard", and "Help" on the right. Below this is a horizontal menu with tabs: "Image", "Network", "System", "Application", "Storage", and "Status". The "Language" tab is selected, and its corresponding menu item in the left sidebar is highlighted in dark blue. The main content area is titled "LANGUAGE SETUP" and contains a sub-header "LANGUAGE SETTING". Below this, there is a label "Language:" followed by a dropdown menu currently showing "English(English)". A "Submit" button is located at the bottom right of the form area.

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 Applications page to enter the “Motion Detection” page.



DDK-1700D

Live Video | Setup | Wizard | Help

Image

Network

System

Application

Storage

Status

Language

Motion Detection


Event

Logout

MOTION DETECTION

LIVE VIDEO

☐ Enable Video Motion



Sensitivity

100 0~100%

Percentage


5 0~100%

Submit

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.



DDK-1700

Live Video | Setup | Wizard | Help

Image

Network

System

Application

Storage

Status

Language

Motion Detection

Event

Logout

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="▼"/>

EVENT

Name	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Time	Trigger
<input type="button" value="Add"/>	<input type="button" value="▼"/>									

RECORDING

Name	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Time	Source	Destination
<input type="button" value="Add"/>	<input type="button" value="▼"/>										

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-1700BC 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-1700BC 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.

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.

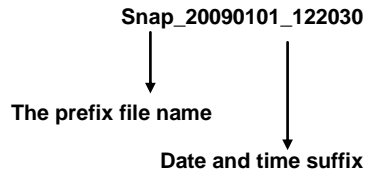
- **Snapshot:**

- (a) Source: Select to take snapshots from the video profile.
- (b) Send pre-event image(s) [0~4]: The DDK-1700BC 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 how many 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:



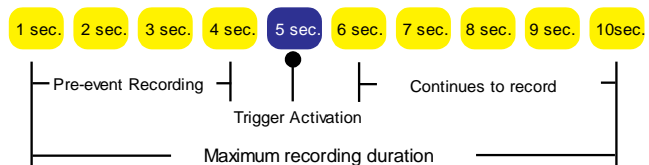
The format is: YYYYMMDD_HHMMSS

- (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-1700BC 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-1700BC 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 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.

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-1700BC. The trigger source can be configured to use the DDK-1700BC'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-1700BC to trigger periodically as defined in minute intervals up to 99999 minutes.
 - (c) Digital input: This option allows the DDK-1700BC to use an external digital input device or sensor as a trigger source.
 - (d) System boot: This option triggers the DDK-1700BC when the power to the DDK-1700BC 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-1700BC 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-1700BC 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 [1000~2000000000]

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-1700BC 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.

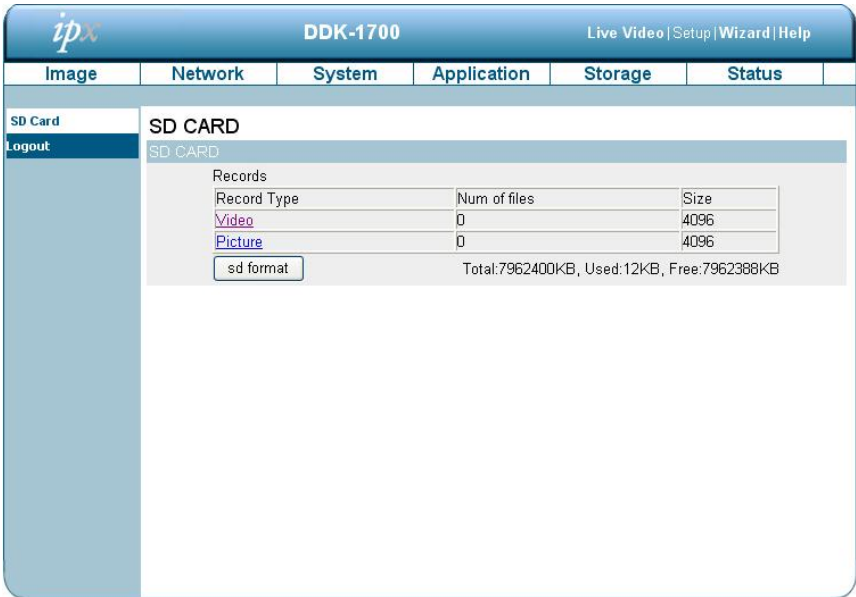
Record settings:

- (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-1700D

Live Video | Setup | Wizard | Help

Image	Network	System	Application	Storage	Status
-------	---------	--------	-------------	---------	--------

Device Info

Log

Logout

DEVICE INFO

INFORMATION

Model Name	DDK-1700D
Device Name	DDK-1700D
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-1700BC log information.

DDK-1700 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-1700BC's IP address: you can connect the DDK-1700BC 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-1700BC 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-1700BC's IP address in the URL → Enter → DDK-1700BC will load.

PPPoE Settings

1. Launch DDK-1700BC's home page → Choose network → Enter "User Name: admin" and "Password: 9999" → Click "OK".
2. Choose PPPoE → PPPoE mode: Select "ON" → Enter "Account" → Enter "Password" → Submit → Unplug the power connection.
3. Power up the DDK-1700BC to receive an IP address from the ISP (this IP address is dynamic --- Each time the DDK-1700BC is powered off and on a new IP address will be obtained).

Test:

1. Desktop → IE browser → Enter the DDK-1700BC IP address (as in the PPPoE settings in step 3 above) → DDK-1700BC should load.

DDNS settings

1. Launch browser → Enter address to connect to DDK-1700BC → Choose network → Enter "User name : admin" and "Password : 9999" → 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-1700BC 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-1700BC.

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-1700BCs from a local or remote desktop or a laptop in a TCP/IP network environment and supports the following functions.

- **Views live streaming images from DDK-1700BCs.**
- **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 / CCTV CMS / CCTV CMS** to open up the program selection page as shown below. Click on the **CCTV 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 / CCTV 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

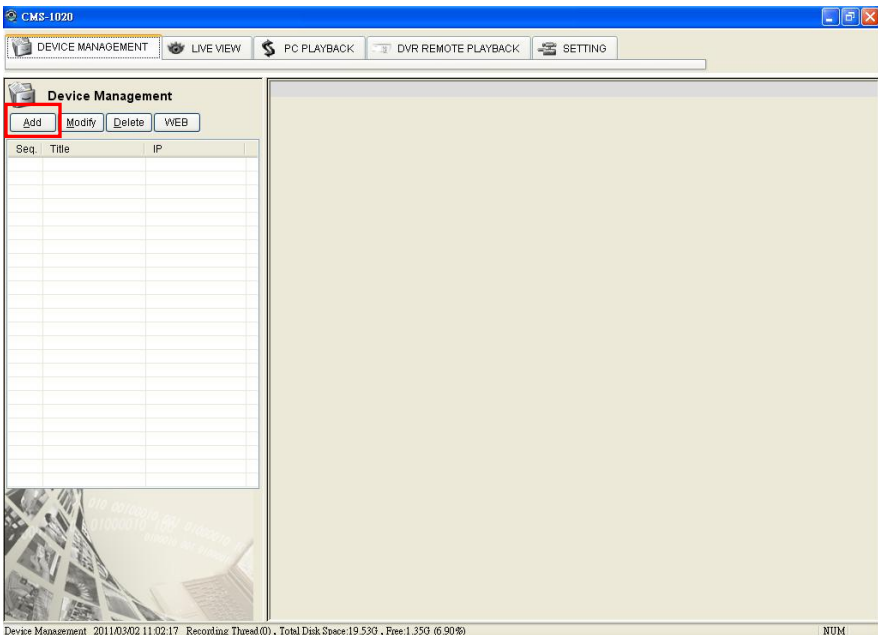
Once the **CMS** is executed a Login prompt will appear. Enter the default user name: **admin**, and password: **9999** in the respective. Click the “**OK**” button and enter the console page of the **CMS**.




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

Viewing DDK-1700BC live video

Follow the instructions below to use the **CMS-1020** to locate DDK-1700BCs 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.




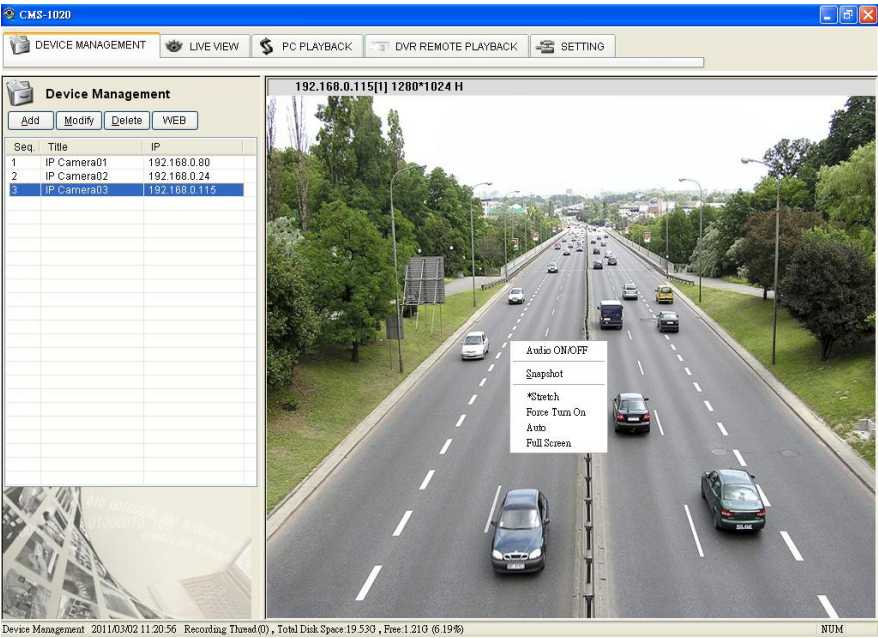
3. **(1)** Click the **Auto Scan** button at the bottom of the "Add Device" page to find devices accessible on the LAN. The "Device Auto Scan" page will appear. Select a device and click "**Add**" at the bottom of the page to access the "Add Device" page again.
(2) This page shows the device IP Address 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-1700BC 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.

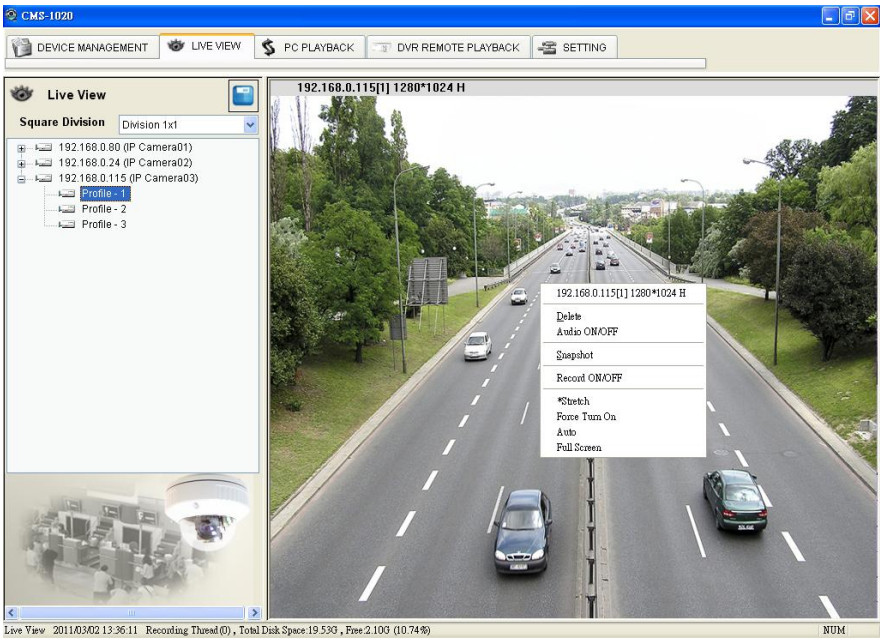



	Add device: Add a new device.
	Modify device: Modify the added device. Select a device, then click this button to edit the device.
	Delete device: Delete the added device.
	Device Setting: For additional device settings, select the device title and click the SETTING button to enter the settings pages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

Pop-menu: Use the mouse to move to each channel. Click the right key of the mouse to show a window. You can select " Audio On/Off ", " Snapshot " or " Size ".	
Audio On/Off	Click to activate the audio function. Click again to deactivate the function.
Snapshot	Click to save a JPG image form the selected device. Set the backup file path and the file name.
Size	Stretch: Click "Stretch" and the image will be stretched to fit the entire viewable area. Force Turn On: Click "Force Turn On" and the image will be shown in the DDK-1700BC's original image ratio centered in the display area. Auto: Click "Auto", and the image will be stretched to fit the entire viewable area of the viewer in normal ratio. Full Screen: 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.)



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

Size	<p>Stretch: Click "Stretch" and the image will be stretched to fit the entire viewable area.</p> <p>Force Turn On: Click "Force Turn On" and the image will be shown in the DDK-1700BC's original image ratio centered in the display area.</p> <p>Auto: Click "Auto" and the image will be stretched to fit the entire viewable area of the viewer in DDK-1700BCs normal ratio.</p> <p>Full Screen: Click "Full Screen" and the image will be stretched to the displays full screen area.</p>
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Add a DDK-1700BC to Live View area:

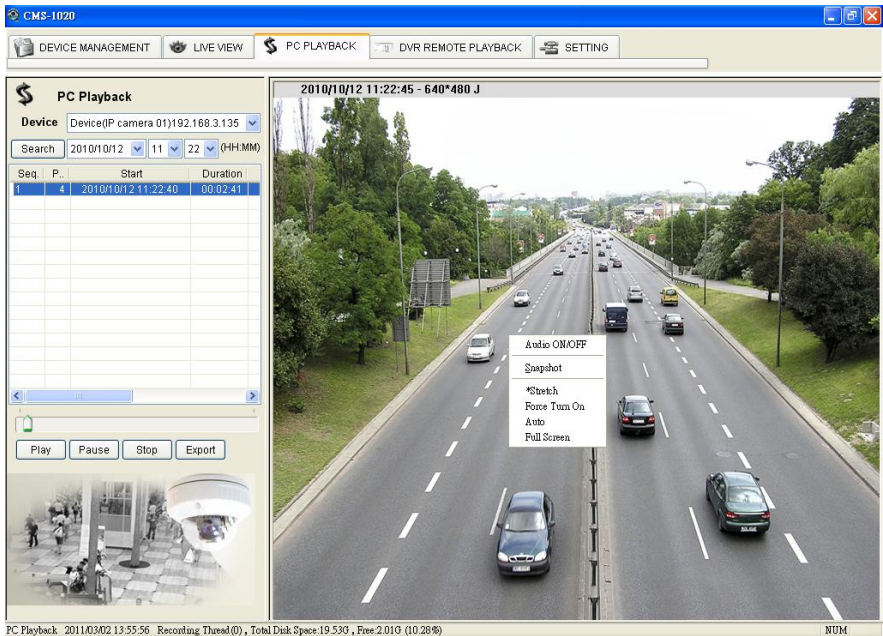
1. Click the DDK-1700BC.
2. Hold down the right mouse button and drag onto the Live View area. The video from the DDK-1700BC will be displayed.
3. In the Live View area, to change/remove DDK-1700BCs or use the "Audio On/Off" or "Snapshot" functions, right click again on the live view area, then click left to select.





Remove a DDK-1700BC from the Live View area:

1. Select the DDK-1700BC to be deleted.
2. Right click on the live view area, then click left to select "Delete".

4.2.4.3 Playback


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

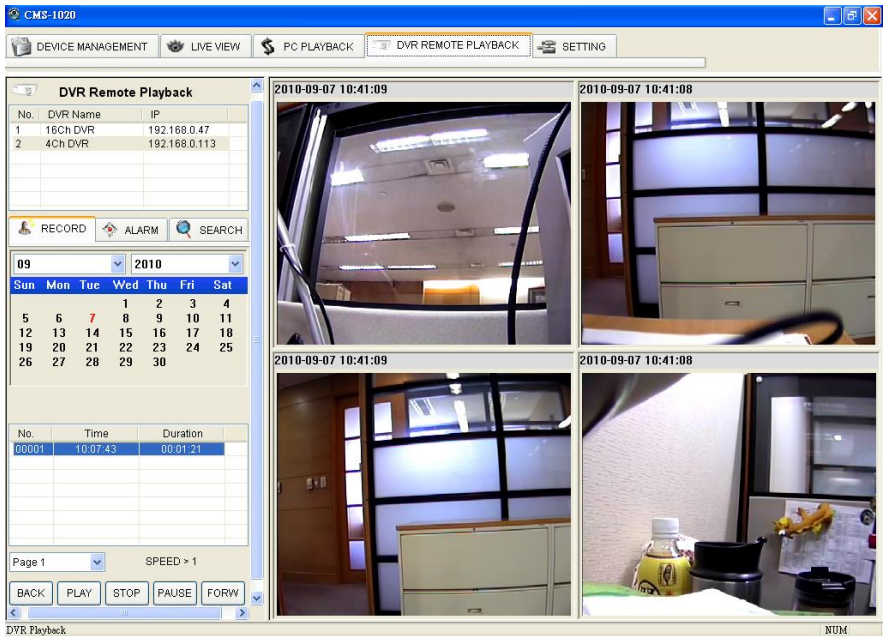


Device List	Select the device from which to play back recorded video.
Play List	Click the file name from the recording list and the program will play back the file and show the details of the recorded file.
Scrollbar	Drag the Scrollbar with the mouse to move to a desired location.
	Click to play the selected video file.
	Click to pause.
	Click to stop.
	<ol style="list-style-type: none">1. Click to save an AVI file of the selected video.2. Use the slider to set the Start/ End time of the recorded file then click the "Set" button.3. Set the backup file path and the file name by clicking the "AVI" button. Click to stop exporting. Then click "Save".
Pop-menu: Use the mouse to move to each DDK-1700BC. Click the right key of mouse to display a window. Select " Audio On/Off ", " Snapshot " or " Size ".	
Audio On/Off	Click to activate the audio function. Click again to deactivate the function.

Snapshot	Click to save a JPG image of the selected channel. Set the file path and the file name.
Size	<p>Stretch: Click “Stretch” and the image will be stretched to fit the Entire viewable area.</p> <p>Force Turn On: Click “Force Turn On”, and the image will be centered and shown in the DDK-1700BC’s original image ratio.</p> <p>Auto: Click “Auto”, and the image will be stretched to fit the entire viewable area of the viewer in ratio.</p> <p>Full Screen: 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.

RECORD

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

RECORD

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

Page 1

Page up/ Page down

Enables page scrolling

BACK







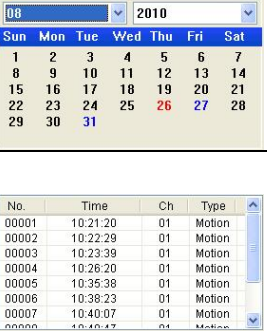


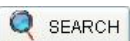

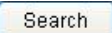
BACK (REV)

Click to play a recorded video in reverse.


PLAY

PLAY

Click to play a video clip from the PLAY LIST.

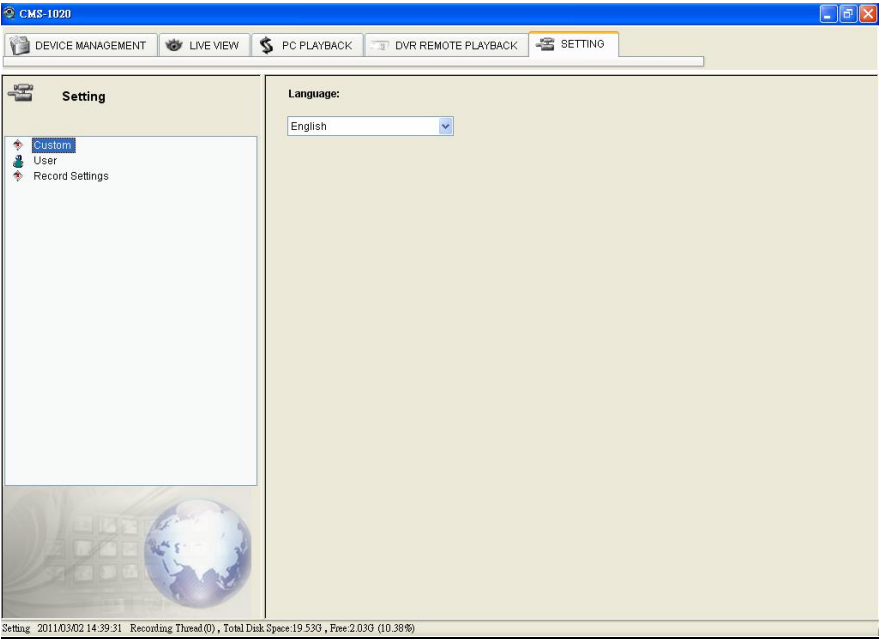
	STOP	Click to stop playing a recorded clip.
	PAUSE	Press the PAUSE button to pause video.
	FWD	Click to play a recorded video in fast forward mode.
 	 	<p>Click this button and the Alarm control panel will appear on the left side of the Live View page.</p> <p>Allows search for video by Month/Date/Year. Dates marked in blue indicate there are alarm activated video clips on those days.</p> <p>NO.: An alarm number in the alarm list. Time: The time the alarm occurred. Ch: The channel where an alarm occurred. Type: The alarm type. Click on entry to review a recorded video clip.</p>
 	 	<p>Click this button and the Time Search panel will appear on the left side of the Live View page.</p> <p>Allows search by Month/Date/Year.</p> <p>Enter the hour and minutes and click the  button.</p>

4.2.4.5 Settings

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

(1) Custom

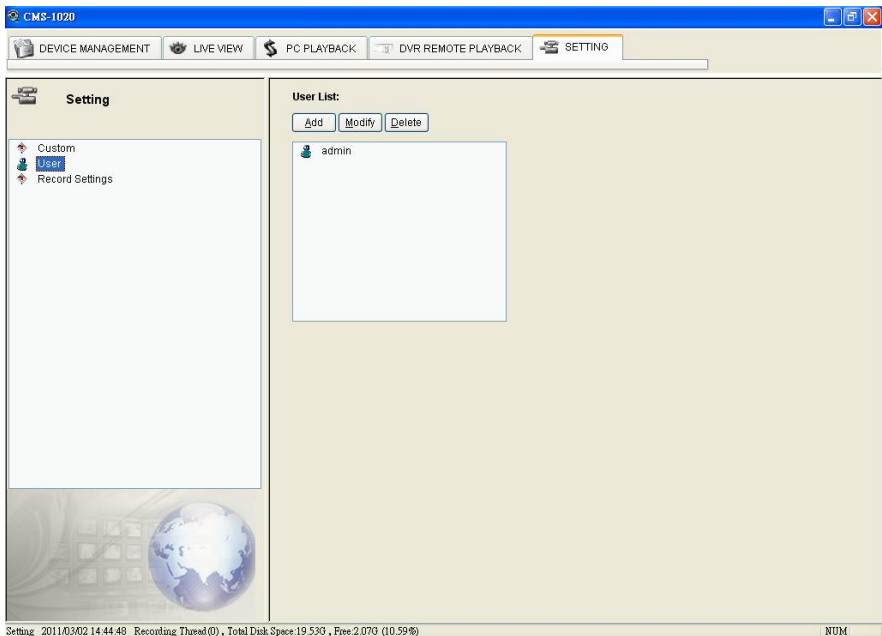
Select Custom to enter the settings page.



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:

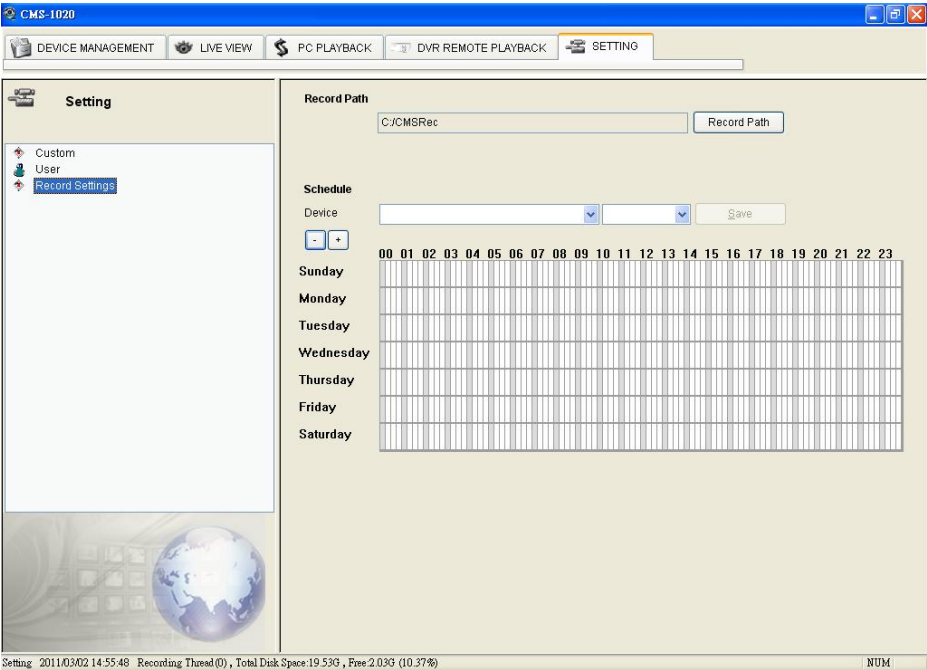
1. Click the "Modify" button to bring up the Modify User dialog box.
2. Enter Password and Confirm Password.
3. Select the user's group.
4. Click "Modify".





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.



Record Path	Click  to select the storage path for recorded files.
Record Schedule	<p>Set the record schedule:</p> <ol style="list-style-type: none">(1) Select the device from the drop-down list.(2) Select the Profile ID (DDK-1700BC) or the Channel (DVR) to be connected.(3) Click   to reduce or enlarge the schedule.(4) Each grid on the schedule represents 15 minutes. A gray grid indicates the first 15 minutes of each hour.(5) Use the left mouse key to set the schedule.(6) Use the right mouse key to cancel the schedule.(7) Press  to save the schedule.

5. ADVANCED OPERATION

Question 1:

How do I view live images of the DDK-1700BC via Internet Explorer on a Desktop PCs or a laptop computer in a situation where there are no monitors?

✎ To obtain the IP address of the DDK-1700BC 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-1700BC'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-1700BC. Then click to go to the DDK-1700BC's home page.
2. Follow step 5 above and make the Route UPnP port forwarding setting.
3. Your computer can access a DDK-1700BC 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-1700BC.

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-1700BC 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 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-1700BC**

1. Click on the URL block at the top of the PC screen.
2. Enter the DDNS Host Name of the DDK-1700BC 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-1700BC.

Question 6:

How do I add or modify users and their authority to use the DDK-1700BC?

◇ **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-1700BC.

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

DDK-1700BC	Image sensor	1/2.7" 2M CMOS sensor
	Lens	2.9~8.2mm C/CS MOUNT/3.3~12mm vari-focal board type
	Minimum illumination	Color: 0.2 Lux @ F1.4.; BW: 0.02 lux@F1.4
	IR cut filter	Yes
	Day & Night	Auto / Day / Night / Schedule.
Image	Video Compression	H.264 / MPEG4 / MJPEG.
	Resolution	-1080P (1920 x 1080), 720P (1280x720), -VGA (640x480), QVGA (320x240), QQVGA (160x120)
	Video streaming	- Simultaneous H.264, MPEG4 and MJPEG. - Multi-profile: resolution / compression / frame rate / video quality.
	Profiles	3
	Frame rate	Single profile (1920x1080): 30FPS Multi-profile (1920x1080): 20FPS
	Image settings	- Adjustable image size, quality, and bit rate. - Day / Night mode. - Flip & Mirror. - AGC, AWB, AES. - Time stamp and text caption overlay. - Privacy masks.
	Video management software	SDK, including HTTP-API / ActiveX / ONVIF.
Audio	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).
Network	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 8 simultaneous users.
	Firmware update	SD card / HTTP.
Alarm	Recording	SD card, SAMBA, FTP
	Pre-alarm recording	Yes.
	Advanced motion	512 zones. Sensitivity: 0 - 100 %.
	Trigger	Motion Detection Schedule Alarm input Ethernet loss Network/Remote digital alarm input
	Notification	SD card recording, SMTP, FTP, HTTP, alarm output.

Connectors	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	1 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]).
	Iris	DC IRIS.
	Reset	Reset for factory default.
	Local storage device	SD / SDHC card slot.
General	LED indicators	Power / Network / SD card.
	Power consumption	≤ 10W
	Power	- 12V DC (DC power jack). - 24V AC (2 pin terminal block). - 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	124 x 150 mm. (H x W) / 2.25 kg
	Accessories included	- Installation Guide. - CD x 1 (includes User's Manual). - Power adapter: (Input: 100-240 VAC, 50 / 60 Hz, Output: 12VDC, 1A). - 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-1700BC management/ web page
Client PCs	One DDK-1700BC can supports 8 simultaneous client PCs.

APPENDIX 1. –How to run DDK-1700BC UPnP

The DDK-1700BC[®] supports the UPnP (Universal Plug and Play) protocol which makes it easier for set-up. Follow these steps for UPnP use:

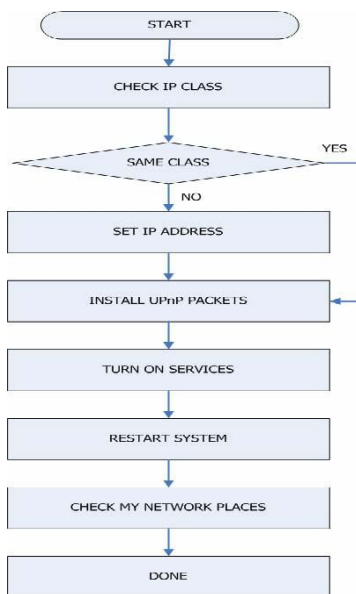


Figure 1 UPnP Setup Flow Chart

1. Check the IP class of your PC

In most case Microsoft Windows[®] 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-1700BC[®] 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.

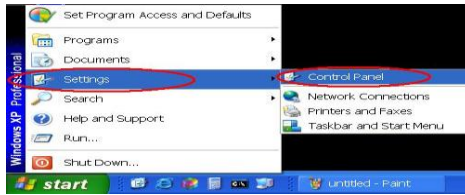


Figure 2

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

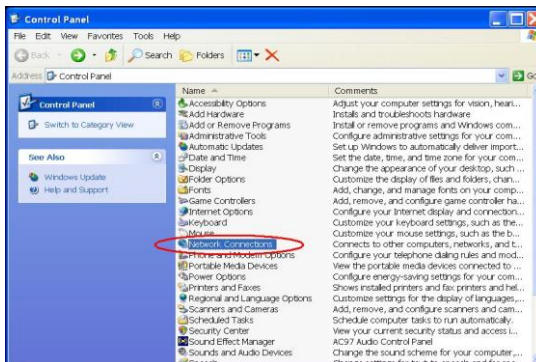


Figure 3

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

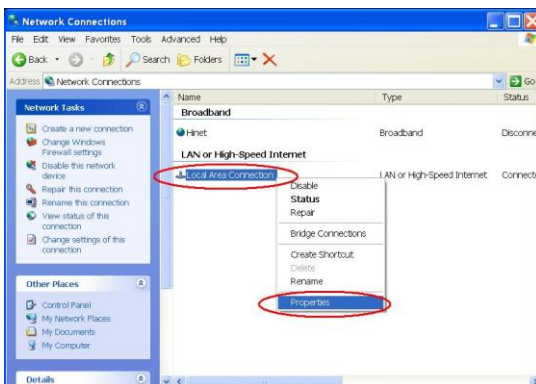


Figure 4

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

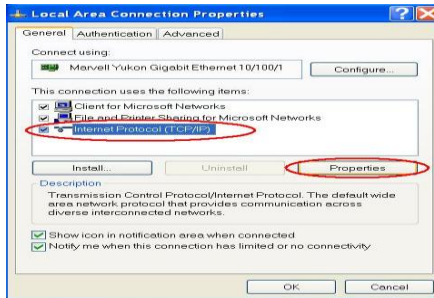


Figure 5

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.

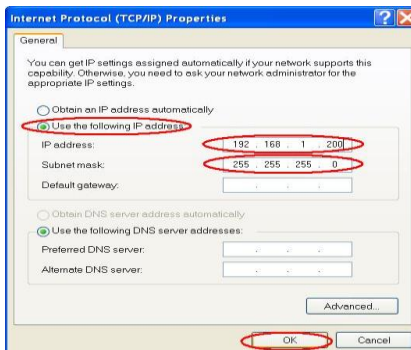


Figure 6

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

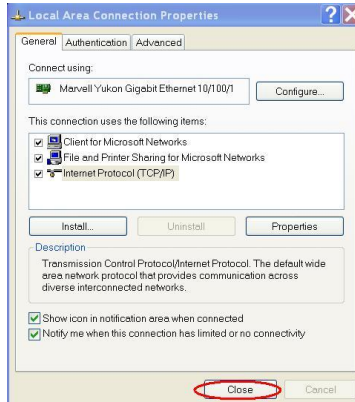


Figure7

2. Install UPnP Packets

Follow these steps:

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

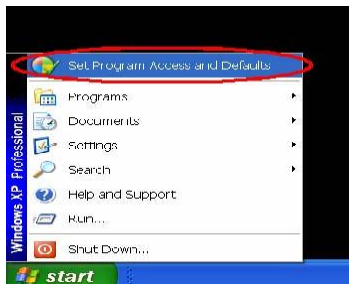


Figure 8

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

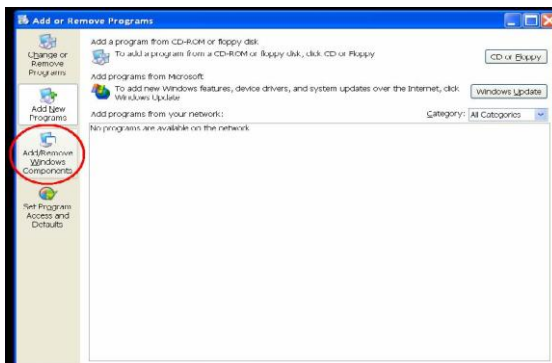


Figure 9

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

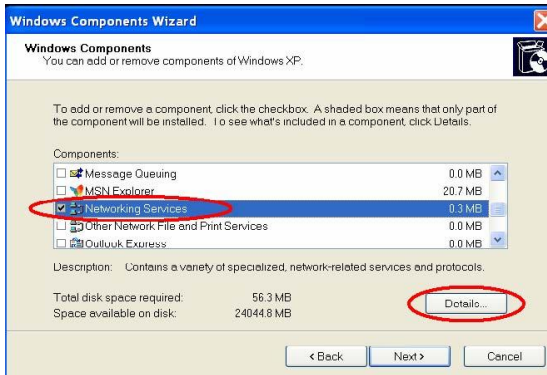


Figure 10

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

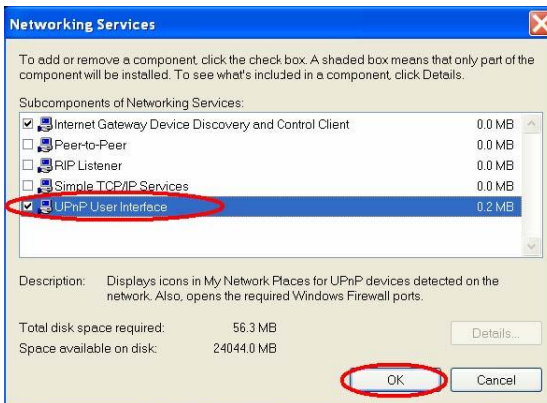


Figure 11

Step 5: When the original **Network Component Wizard** dialog box returns, click **Next**. See Figure12.

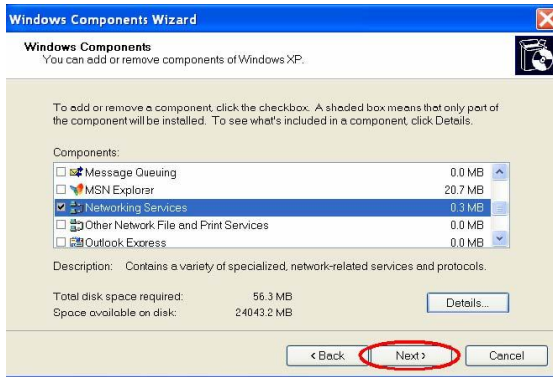


Figure 12

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.

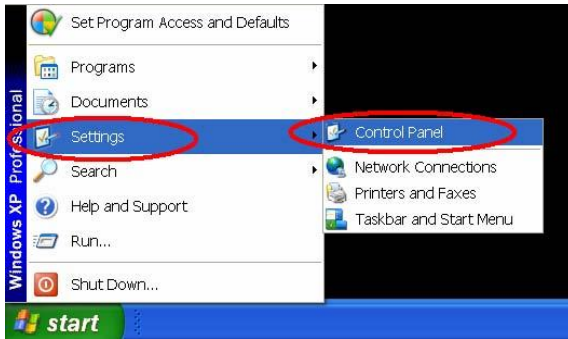


Figure 14

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

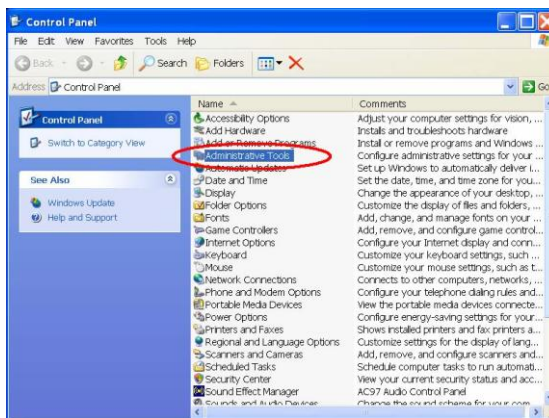


Figure15

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

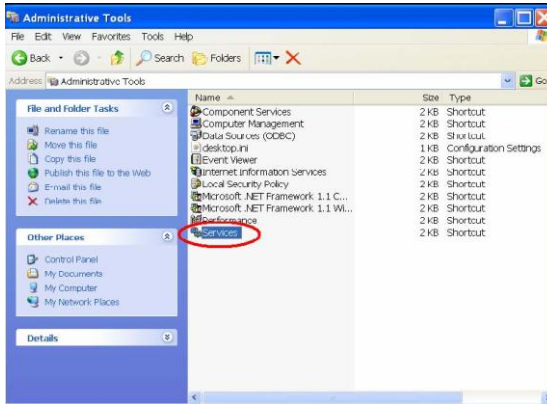


Figure16

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

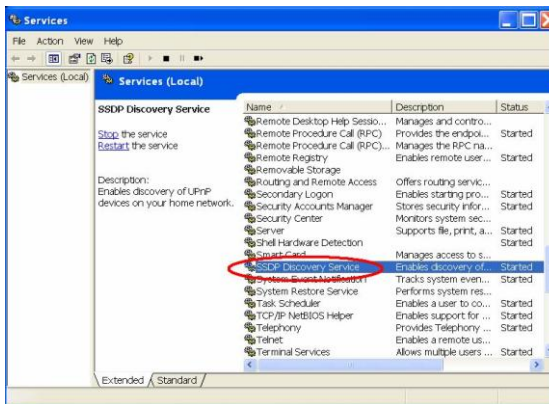


Figure17

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

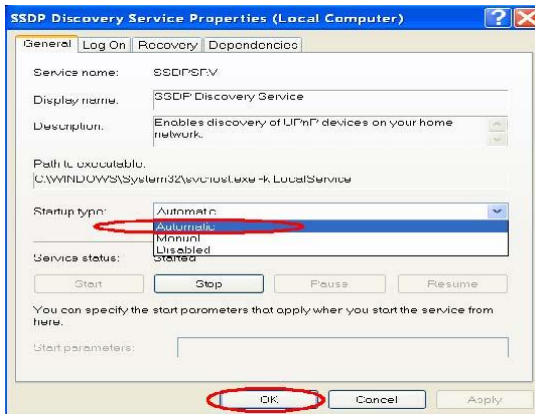


Figure18

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

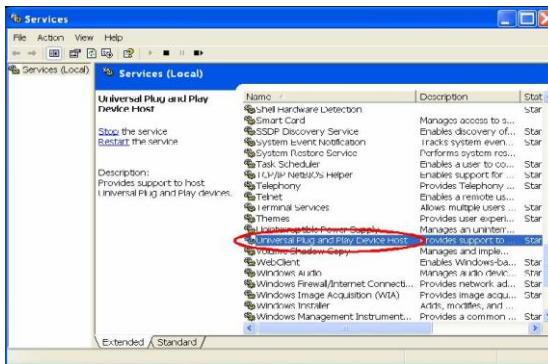


Figure19

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

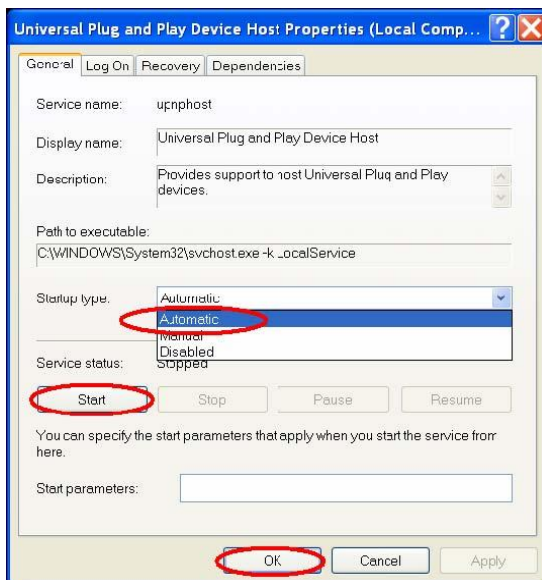


Figure20

Step 8: Restart your system.

4. Scan DDK-1700BCs[®] through My Network Place

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

You can scan all DDK-1700BCs[®] in My Network Place, as in Figure21 and Figure22 below.

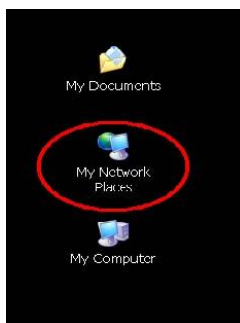


Figure21

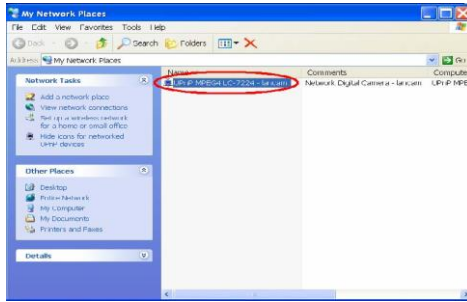


Figure22

Double click the **UPnP DDK-1700BC** icon, and the video live stream will pop up automatically without assigning any IP address in Microsoft Internet Explorer[®].

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. In the upper right-hand corner of the main page, where there is an item, **"Create Account"**, as shown in Figure 1.

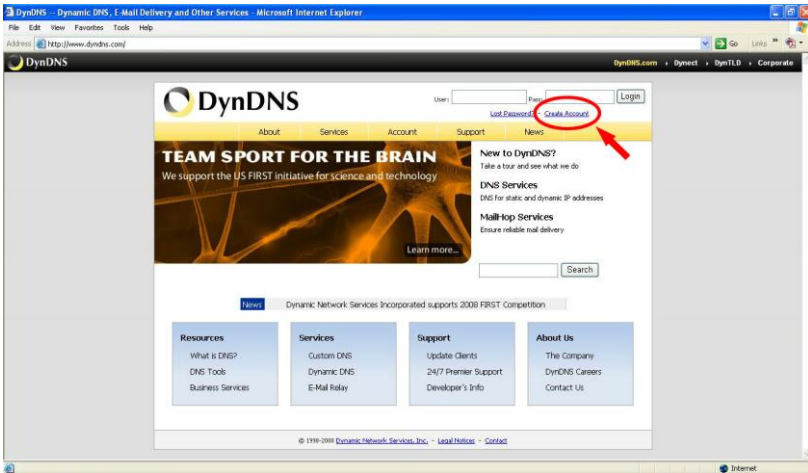


Figure 1

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.

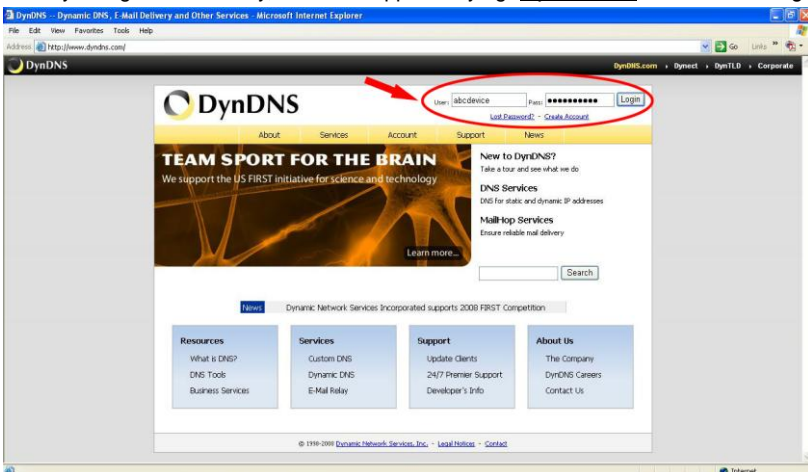


Figure 2

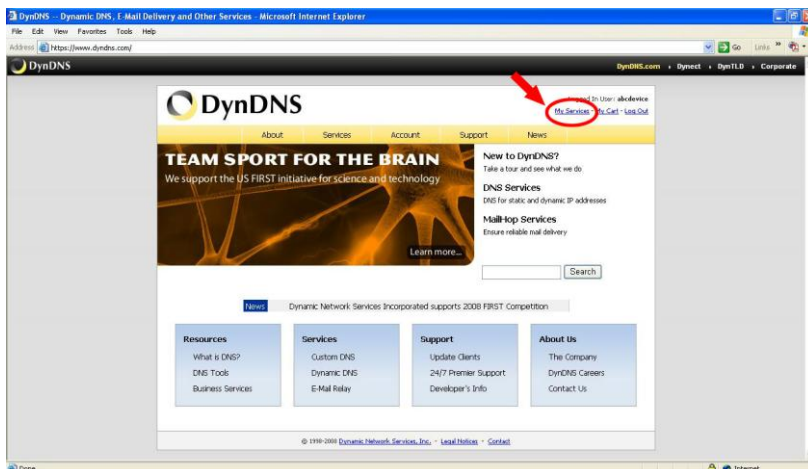


Figure 3

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.

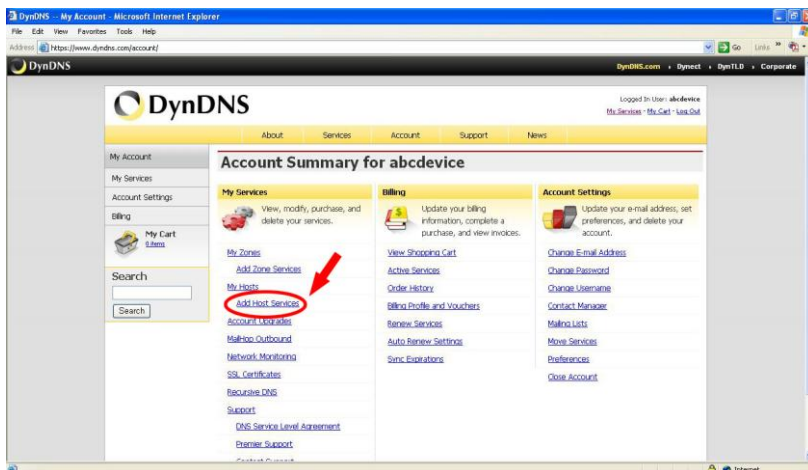


Figure 4

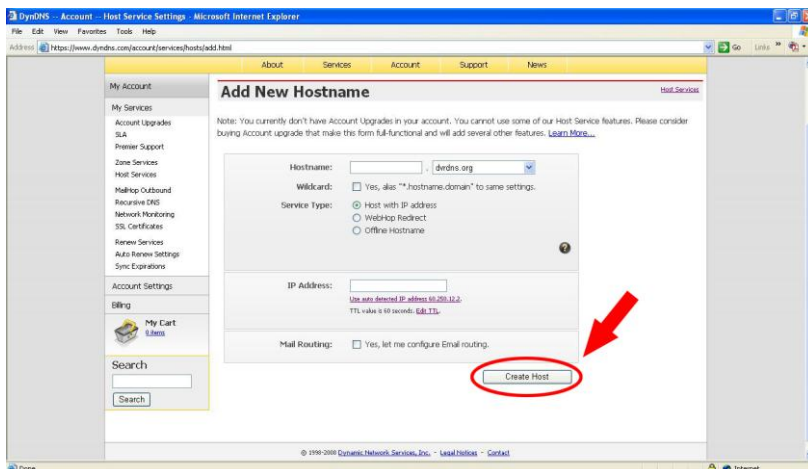


Figure 5

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-1700BC’s IP Address. It will renew the IP Address automatically.

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

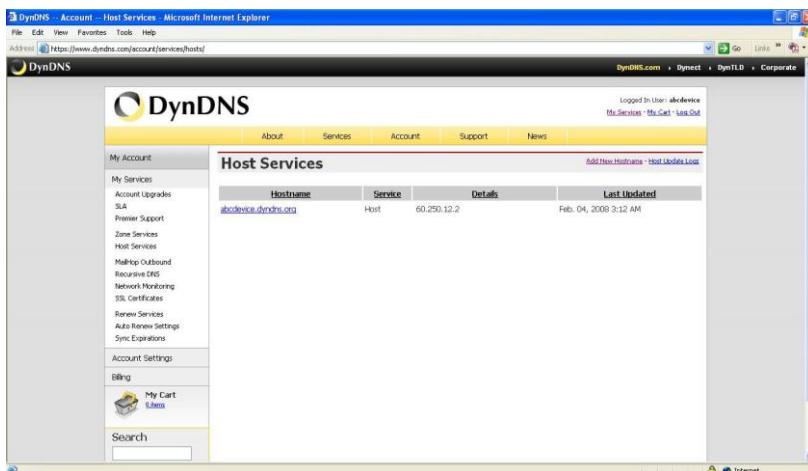


Figure 6