INSTALLATION &

OPERATION MANUAL

DDK-1801BC

Fixed Indoor/Outdoor IP Bullet Camera

(AF Lens)



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SAFETY PRECAUTIONS

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

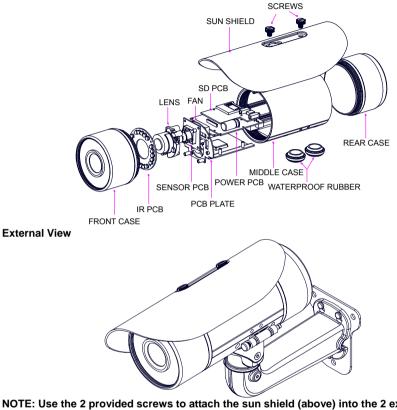
WARNING

- 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-1801BC yourself. Opening the DDK-1801BC'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.

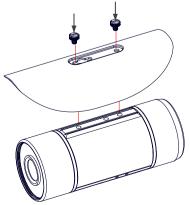
1. DESCRIPTION

1.1 PHYSICAL DESCRIPTION

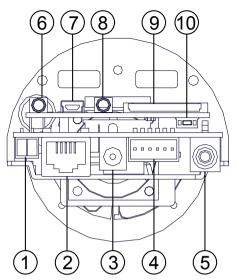
Internal View



NOTE: Use the 2 provided screws to attach the sun shield (above) into the 2 extreme holes shown in the picture below to get an unobstructed viewing angle. Do not 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.
- 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 Input: DC 12V input that connects to an external power supply.
- 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-1801BC to a USB port on a computer.
- 8. AUDIO OUT: Provides audio to an external device.
- 9. SD/ SDHC CARD slot: Used for updating system software and archiving video.
- 10. 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-1801BC 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. IMAGÉ SETTINGS

AUDIO AND VIDEO

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

MOTION DECTION

a. Video Motion setting

TIME AND DATE

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

Event Setup

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

[ADVANCED]

DI and DO

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

ICR

a. ICR

HTTPS

a. HTTPS

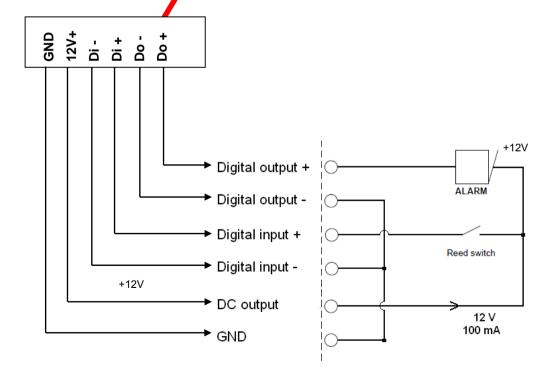
Access List

- a. Allow List
- b. Deny List

1.3 Alarm wiring diagram

DDK-1801BC





1.4 The USB function

The DDK-1801BC can provide two separate functions by connecting the DDK-1801BC with a PC via the USB connector

1. Using an SD card as a card reader.

Insert an SD card into the DDK-1801BC and then connect to the PC. You may then transfer files between the SD card and the PC. Once you've connected your DDK-1801BC 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

Title	ipcam(0	la:ca:ca:ca	:ca:0b)		DHCP	ON			3
IP Address	192	168	0	83	– Netmask	255	255	252	0
Gateway	0	0	0	0	DNS Server	192	168	1	11
HTTP Port	80								

DHCP OFF

SB Configure		la:ca:ca:ca	:ca:0b)		DHCP	OFF			
IP Address	192	168	0	83	Netmask	255	255	252	0
Gateway	0	0	0	0	DNS Server	192	168	1	11
HTTP Port	80							11.6	
							Apply(<u>A</u>)	E	xit(<u>E</u>)

- 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-1801BC's Video Out connector can be connected to a monitor via RCA connection.
- When connected you will see information on the monitor screen including the DDK-1801BC's factory default IP address (192.168.1.168). The DDK-1801BC's IP address will only appear if there is a connection between the DDK-1801BC and another device.

2.1 Hardware Installation

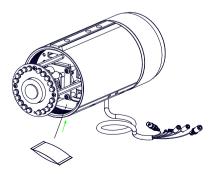
- 1. If using external power, connect the power adapter to the DDK-1801BC.
- 2. Connect network cable to the DDK-1801BCs RJ45 connection.
- 3. Confirm the correct network connection status.
- 4. Enter DDK-1801BC's IP address into your browser.

2.2 Placing a Desiccant Pack Inside the DDK-1801BC

The DDK-1801BC 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-1801BC 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-1801BC.
- 2. Use two-sided adhesive tape to attach the desiccant pack.
- 3. Reattach the cover of the DDK-1801BC.



2.3 Updating System Software

If the system software of the DDK-1801BC needs to be upgraded, follow these steps

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

- 1. Create a directory with the name **DDK-1801BC** on the SD card if it does not already exist.
- 2. Copy the file UPDATE.BIN to the DDK-1801BC -directory.
- 3. Shut down DDK-1801BC's power.
- 4. Insert the SD CARD into the DDK-1801BC.
- 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-1801BC 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.
- If the message "UPDATE NG RESET PLEASE" appears, write down the error messages shown on the screen and contact manufacturer. Power off the DDK-1801BC when the update process is finished and then remove the SD card from the camera.
- 8. Reconnect the Ethernet cable to the RJ-45 port. Power ON the IP camera.
- 9. Verify the version of the system software.

WARNING:

- If the power of the DDK-1801BC is suddenly lost in step 7, remove the SD card first and then power the camera on. If the DDK-1801BC 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.

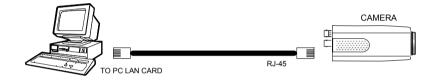
3. Network Configuration

3.1 Cable Connections

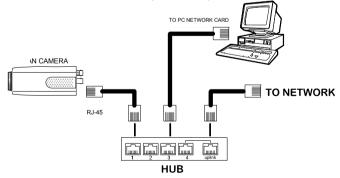
Physical specifications of RJ-45 cable for Ethernet

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-1801BC to Computer connection



3.1.2 DDK-1801BC to Network Switch (INTRANET)



3.2 Network Settings Configuration

3.2.1 Enabling DHCP Function

The DDK-1801BC's default setting is DHCP OFF. Users can build the camera working environment

with a static IP address. The default static IP is 192.168.1.168.

3.2.2 Setting an IP Address

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

Note: The default static IP is 192.168.1.168.

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

IP:	192.168.1.X
MASK:	255.255.255.0
GATEWAY:	0.0.0.0

NOTE:

When a DDK-1801BC 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-1801BC 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-1801BC 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-1801BC 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.

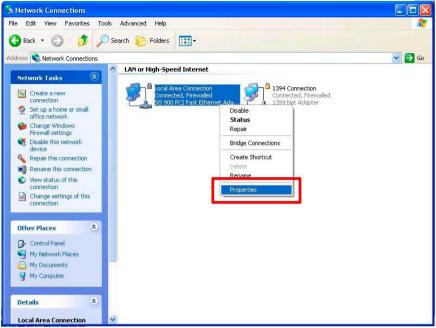
1. Click Start, and then click Control Panel.



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.

Local Area Connection Properties	
Connect using:	
🐲 SiS 900 PCI Fast Ethernet Adapter	Configure
This connection uses the following items:	
Client for Microsoft Networks Giber and Printer Sharing for Microsoft Net Giber and Printer Sharing for Microsoft Net Giber and Protocol (TCP/IP) Giber and Protocol (TCP/IP)	works
Install	Properties
Description Transmission Control Protocol/Internet Protoco wide area network protocol that provides comm across diverse interconnected networks.	
 Show icon in notification area when connecte Notify me when this connection has limited or in 	
OK	Cancel

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.

😃 Local Area Connection P	operties	? 🔀	1. Select "TCP/IP."
General Authentication Advan	ced		2. Click "Install".
Connect using:			
SiS 900 PCI Fast Etherne	: Adapter	igure	Select "Protocol"
This connection uses the followi	ng items:	Select Netwo	ork Component Type 🛛 🛜 🔀
File and Printer Sharing	for Microsoft Networks	Click the tune of	of network component you want to install:
Internet Protocol (TCP/	IP) 1.	Client	or network component you want to install.
		Protocol	1.
I <u>n</u> stall 2 . Un	install Prop		3.
Description		Description	
Allows other computers to acc using a Microsoft network.	ess resources on your c		s a language your computer uses to te with other computers.
Show icon in notification area			
Notify me when this connecti	on has limited or no con		Add 4. Cancel
Se	lect Network Proto	col	? 🛛
			you want to install, then click OK. If you have
	- an installation d	isk for this compo	onent, click Have Disk.
	Network Protocol		
4. Click "Add"	😼 Microsoft TCP/IP ver		
	⇒ Network Monitor Driv WLink IPX/SPX/N		ole Transport Protocol
5. Select TCP/IP			
	This driver is digitally	signed.	
6. Click "OK".	Tell me why driver sid		Have Disk
			6. OK Cancel

3.5 TCP/IP configuration setting

Click <u>Start</u> > <u>Control Panel</u> > <u>Network Connections</u>.

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

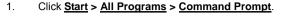
Before completing installation to the LAN, make sure the Internet connection works properly.

eneral Authentication Advanced	General Alternate Configuration	
Connect using: SiS 900 PCI Fast Ethernet Adapter	You can get IP settings assigned automatically if your network sup this capability. Otherwise, you need to ask your network administra the appropriate IP settings.	
his connection uses the following items:	Obtain an IP address automatically	
✓ Scient for Microsoft Networks	Use the following IP address:	
Electric of Microsoft Vetworks Electric of Microsoft Networks	IP address:	
🗹 📕 QoS Packet Scheduler	Subnet mask:	
Internet Protocol (TCP/IP)	Default gateway:	
Install Uninstall Properties	> Obtain DNS server address automatically	
Description	Output the following DNS server addresses:	
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication	Preferred DNS server: 168 . 95 . 1 . 1	
across diverse interconnected networks.	Alternate DNS server:	
Show icon in notification area when connected		
Notify me when this connection has limited or no connectivity	Advar	nced
		Cance

If you are using a DHCP server, select <u>Obtain an IP address automatically</u>. Any assigned IP address for the connected DDK-1801BC must be in the same class type as the server. If there is no DHCP server, please select <u>specify an IP address</u> 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.

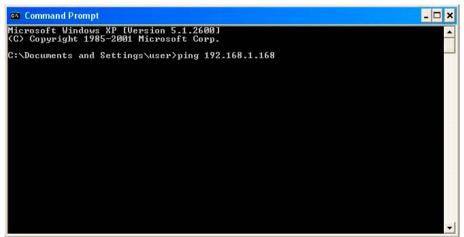
3.6 Connection Testing

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

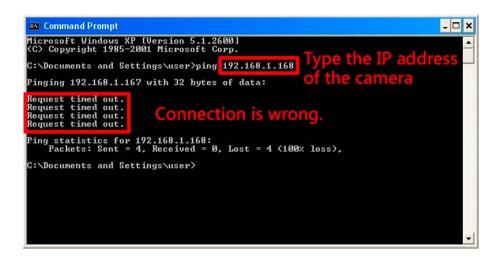




- Enter <u>ping XXX.XXX.XXXX</u> (the DDK-1801BC's IP address), then enter. (See the sample screen below).
 - ** This is the IP address for a DDK-1801BC that is assigned for the connected camera.



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



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

📾 Command Prompt 📃 🗖	:
Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp. Type the IP address]
C:\Documents and Settings\user>ping 192.168.1.168	4
Pinging 192.168.1.168 with 32 bytes of data: Of the camera	
Reply from 192.168.1.168: bytes=32 time=1ms TTL=100 Connection is Reply from 192.168.1.168: bytes=32 time<1ms TTL=100	
Ping statistics for 192.168.1.168: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 1ms, Average = 0ms	
C:\Documents and Settings\user}_	

4. Operating Instructions for Network Connection

The DDK-1801BC may be accessed through a Web Brower.

RJ-45 PIN	configuration	for Ethernet
-----------	---------------	--------------

PIN NO.	PIN Assignment	– RJ-45 socket
1.	TX +	
2.	TX -	
3.	RX +	
4.	Not Connected	12345678
5.	Not Connected	╴╎┶┓╴╶┛╎
6.	RX -	
7.	Not Connected	-
8.	Not Connected	_

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-1801BC

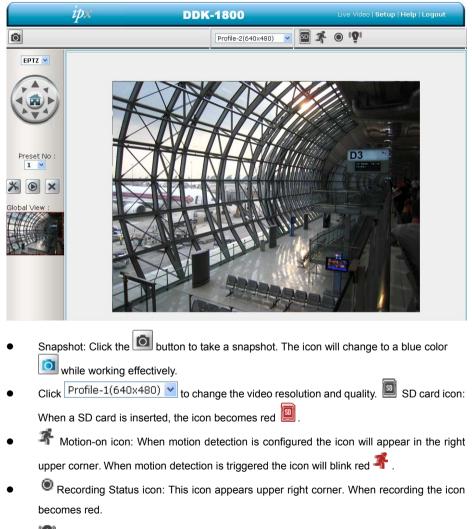
- 1. Start up your Web Browser, and then follow the steps below to connect the DDK-1801BC.
- 2. Click on the URL box at the top of the window.
- 3. Enter the URL address of the DDK-1801BC into the URL box and press the "Enter" key to enter the home page.
- 4. Enter the "User Name" and "Password" in the 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-1801BC.
- NOTE: Once authenticated, the login page will not appear again unless you close and reconnect.

Connect to 19	2.168.0.92	? 🔀
R		1 al
NETWORK		
User name:	2	*
<u>P</u> assword:		
	Remember my passv	vord
	ОК	Cancel

4.1.2 Live Video

Live video from the DDK-1801BC 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.

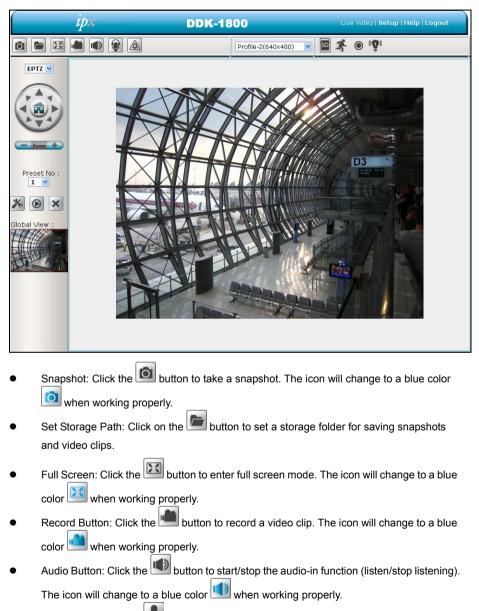




Alarm on-icon: Detects external alarms. When an alarm is triggered the icon will blink red

ActiveX viewer:

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



• Talk Button: Click the 🖤 button to start/stop audio out function (talk/stop talking). The

icon will change to a blue color when working properly

- Digital output: Click the button to start/stop digital output. The icon will change to a blue color when working properly.
- EPTZ Digital Zoom mode. This mode utilizes the megapixel resolution of the DDK-1801BC 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-1801BC.

ipx	DDK-1800
Welcome to setup wizard - internet	connection setup
	p-by-step process to configure your new Camera and connect the camera to tion detection settings, please click the Back button to close this wizard and re- l.
	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
	Back Next Cancel

Click Next to continue.

Step 1:

ipx	DDK-1800
camera is connected to a router, or you are unsure wh	Internet with a DHCP connection or Static IP address. If your ich settings to pick, it is recommended that you keep the default the Static IP address to manually assign an IP address before
Enable DHCP	
IP address	192.168.0.168
Subnet mask	255.255.252.0
Default Gateway	0.0.0.0
Primary DNS	192.168.1.11
Back	Next Cancel

The DDK-1801BC default setting is DHCP OFF. Users can build the DDK-1801BC working environment with a static IP address. The DDK-1801BC's default IP is 192.168.1.168. You can set an IP address for the DDK-1801BC if the LAN unit isn't connected to a DHCP server. Or use DHCP protocol if DHCP is supported on your LAN. The DDK-1801BC will obtain an IP address automatically from the DHCP server.

Click Next to continue.

Step 2:

ipx		DDK-1800
Step 2: Setup Internet Se	ttings	
		e case that your ISP is using PPPoE and then click on the Next our Username and Password.
	Enable PPP	loE
	User Name	
		(e.g. 654321@hinet.net)
	Password	
	Bac	k Next Cancel

If using PPPoE, select Enable and enter user name and password. Otherwise select Disable and

click Next to continue.

Step 3:

ipx		DDK-1	800
Step 3: Setup DDNS Settings If you have a Dynamic DNS account and enter in your host information be			automatically, enable DDNS
Enable DDNS			
Server Address	www.DynDNS.org	<< www.DynDNS.org	*
Host Name			
User Name		-	
Password		1	
Verify Password			
Timeout	24	(hours)	
	Back Nex		

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

Click Next to continue.

Step 4:

ip×	DDK-1800
Step 4: Camera Name Settings	3
	e your camera for easy accessibility. You can then identify and connect to your gn a name of your choice before clicking on the Next button.
IP Device Name	DDK-1800
	Back Next Cancel

Enter a name for your DDK-1801BC and click **Next** to continue.

Step5:

ipx	DDK-1800
Step 5: Setup Time Zone	
Please configure the correct time to and day and then click on the Next b	ensure that all events are triggered, captured and scheduled at the correct time outton.
Time Zone	(GMT-05:00) Bogota, Lima, Quito, Rio Branco 🛛 🗸
Enable Daylight Savin	3
	Back Next 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:

ipx		DDK-1800
Step 6: Setup complet	e	
	correct. It is reco	ngs. Click on the Back button to review or modify settings or click on the Apply mmended you note down these settings in order to access your camera on
	IP Address	192.168.0.168
	IP Device Nar	ne DDK-1800D
	Time Zone	(GMT-05:00) Bogota, Lima, Quito, Rio Branco
	DDNS	Disable
	PPPoE	Disable
		Back Apply Cancel

If DHCP is selected, a summary of the DDK-1801BC's settings will be displayed. Write down all

this information as it is needed to access the camera over the network.

Click Apply to save settings.

4.1.3.2 Changing Image Settings

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

- <u>The Image Setup setting page</u>
- 1. Click the **Image** button to enter the image-setting page.

ipx		DDK-1800		Live Video S	etup Wizard Help
Image	Network	System	Application	Storage	Status
<mark>lmage</mark> Audio and ¥ideo Privacy Mask Logout	IMAGE SETUP MEWER TYPE Viewer Type O AJAX O Active IMAGE SETTINGS	x			
	Expo Deno Mirro Flip White Brigh Contr Satur	r e Balance tness	0 O On Off O On Off	Max Gain 24 💌 dB	
	DEVICE SETTING Device Name Enable OSD Timestamp Labe Timestamp Loca			maximum 63	

- 2. VIEWER TYPE. Select "AJAX" or "ActiveX" mode.
- 3. IMAGE SETTINGS. Includes "Metering Method", "Exposure Mode", "Denoise", "Mirror",

"Flip", "White Balance", "Brightness", "Contrast", "Saturation" and "Sharpness".

- 4. DEVICE SETTINGS. Includes "Device Name" and "Timestamp".
 - Click "Enable OSD" and checkmark the box to activate this function.
 - Enter "Timestamp Label".
 - Enter "Timestamp Location".
- 5. Click the **Submit** button to submit new image settings

Functions:

methods measure the subject brightness differently. Center-weighted: The metering is weighted at the center and ther averaged for the entire scene. Spot: This is for metering the central part of the entire scene. Exposure Mode Exposure Mode controls a camera by shutter speed and the lens aperture indoor: Indoor: The optimum exposure setting is pre-programmed for the indoor environment. The default shutter time is 1/30~1/120 (1/25~1/100) and the maximum gain is 36 dB. Outdoor: The optimum exposure setting is pre-programmed for the indoor environment. The default shutter time is 1/30~1/750 (1/25~1/750) and the maximum gain is 36 dB. Night: The optimum exposure setting is pre-programmed for the nigh environment. The default shutter time is 1/30~1/750 (1/25~1/500) and the maximum gain is 12 dB. Moving: The optimum exposure setting is pre-programmed for moving subjects. The default shutter time is 1/30~1/750 (1/25~1/500) (1/100~1/1,000) and the maximum gain is 36 dB. Low noise: The optimum exposure setting is pre-programmed to reduce the noise. The optimum exposure setting is pre-programmed to reduce the noise. The optimum exposure setting is ne-programmed to reduce the noise. The optimum exposure setting is ne-programmed to reduce the noise. The optimum exposure setting is ne-programmed to reduce the noise. The optimum exposure setting is ne-programmed to reduce the noise. The optimum exposure setting is ne-programmed to reduce the noise. The optimum exposure setting is ne-programmed to reduce the noise. The optimum exposure setting is ne-programmed to reduce the noise. The optimum exposure setting i		
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Mirror:	Reverses image display.
Flip:	To flip the DDK-1801BC's image 180 degrees.
White Balance	White balance corrects unnatural color shades. Select your options from "Auto", "Outdoor", "Indoor", "Fluorescent" and "Push Hold".
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 Label:	Enter the timestamp label.
Timestamp Location:	Click to choose location.
Submit:	Click to save settings.

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

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

• <u>The Audio and Video setting page</u>

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.

		IPCamera		Live Video Setup Wizard Help		
Image	Network	System	Application	Storage	Status	
Image Audio and Video Lens Control Privacy Mask Logout	AUDIO AND V VIDEO SETTINGS Profile number Aspect ratio Warning: Change I detection. VIDEO PROFILE 4 Mode Frame size Viewer window area Intra Frame Period Maximum frame rat Video quality	System IDEO the aspect ratio will ILL 1 1 1 2 1 2 1 2 1 30 1 1	Application	Storage	Status	
	Constant bi Fixed qualit VIDEO PROFILE 2 Mode Frame size Viewer window area Maximum frame rat Video quality AUDIO SETTINGS	y ③	x480 ~ x480 ~			
	Encoding G.711 Audio Mechanism Setting Audio Mic Gain 20dB Line IN 12dB Power LINE 0 60 Hz 50 Hz					
	Submit					

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

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

Functions:

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

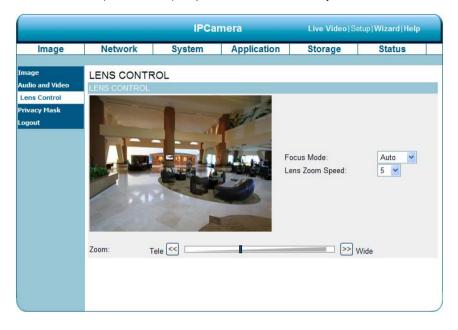
NOTE: Audio In/Out:

Follow the steps.

- 1. Connect DDK-1801BC 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-1801BC Audio out to the speaker.
- 4. Select "Talk" $\bigcirc \rightarrow \bigcirc$; speak to the PC-connected microphone.
- 5. Confirm audio from connected speaker.
- 6. Connect Mic to DDK-1801BC--Audio in; connect speaker to PC--AUDIO Out.
- Click "Listen" in the webpage → iii; the Mic will send an audio signal to the DDK-1801BC.
- 8. Confirm audio from PC speaker.

<u>The Lens Control page</u>

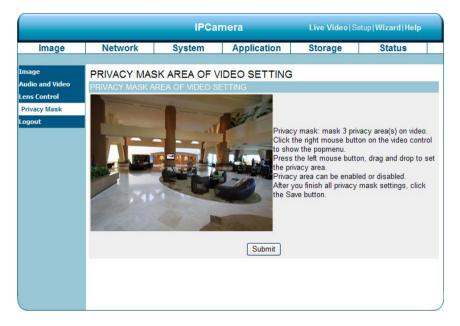
Select **Lens Control** to enter the Lens Control setting page. Use the focal length (zoom function) and the focus control (focus function) to optimize the remote focus adjustment.



- Select the Focus Mode: the Manual or the Auto mode. Select Auto to enable the autofocus and motorized zoom. Select Manual and finish the following settings to activate the manual lens control.
- 2. Select a suitable Lens Zoom Speed: select your options of any level between 1 and 10.
- Manual varifocal: Scroll the bar or click the Tele/ Wide button to zoom in/ zoom out to adjust the focus length of the lens. Click the Tele/ Wide button to the field of view you want.
- 4. Manual focus: Scroll the bar or click the corresponding Near/ Far button to adjust the focus. Focus Near: Use it to focus on objects which are close to the camera. Focus Far: Use it to focus on objects which are far from the camera. Click Near/ Far button to manually adjust the focus until the subject is clearly in view.
- Click the Fine tune focus automatically button to activate the autofocus motor to get the best focus.

<u>The Privacy Mask settings page</u>

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-1801BC's image to be blocked/excluded from recordings and snapshots.



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

4.1.3.3 Changing the Network Settings

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

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

ipx	DDK-1800			Live Video S	etup Wizard Help
Image	Network	System	Application	Storage	Status
Network	NETWORK SI	ETUP			
PPPoE	LAN SETTINGS				
Port Detail	Enable DHCP				
Traffic	IP addres	s 192.168	3.1.168		
Dynamic DNS	Subnet n	ask 255.255	252.0		
HTTPS	Default G				
Access List		and a second	0.1.11		
Logout	Primary I	and the second sec			
	Enable UPnP p				
	Enable UPnP p				
	Forwardin		Test		
	Forwarding Status UPnP : Forwarding is inactive				
			Submit		

- 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.

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-1801BC to be configured					
	as a UPnP device on your network.					
Enable UPnP port forwarding:	Enable this setting to allow the DDK-1801BC to add port					
	forwarding entries into your router automatically.					

• Changing the PPPoE Network Setting.

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

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

ipx		DDK-1800		Live Video S	etup Wizard Help	
Image	Network	System	Application	Storage	Status	
Image Network PPPoE Port Detail Traffic Dynamic DN5 HTTP5 Access List Logout	Network PPPoE PPoE SETTINCS ○ Enable ⊙ Dis User Nar Passwor Confirm µ Status	able ne	Submit	Storage	Status	

- 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.

PPPoE Setting	If you use the DDK-1801BC 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-1801BC 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.

ipx	D	DK-1800		Live Video S	etup Wizard Help
Image	Network	System	Application	Storage	Status
Network PPPoE Port Detail Traffic Dynamic DNS HTTPS Access List	PORT DETAIL HTTP HTTP port Access name for stream1 Access name for stream2 HTTPS	80 video1.mjpg video2.mjpg			
Access List Logout	HTTPS port RTSP RTSP port Access name for stream1	443 554 live1.sdp			
	Access name for stream2	live2.sdp	Submit		

- 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.
- 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-1801BC, 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-1801BC 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' The HTTPS Port connects the DDK-1801BC with a PC via a secure web
HTTPS Port	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-1801BC.

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-1800	Live Video Setup Wizard Help		
Image	Network	System	Application	Storage	Status
Network PPPoE Port Detail Traffie Dynamic DN5 HTTP5 Access List Logout	TRAFFIC TRAFFIC Maximum Upload E Maximum Downloa *Due to TCP tra (16KB) to avoi	andwidth: d Bandwidth: ansmission proteo	0 0 ction, we have a m < up. Too few ban	Kilo Bytes Per Seco Kilo Bytes Per Seco inimal threshold in	ond

- 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.

ipx		DDK-1800		Live Video S	etup Wizard Help	
Image	Network	System	Application	Storage	Status	
Network PPPoE Port Detail						
Traffic Dynamic DNS HTTPS	Enable DDNS Server Address Host Name	www.DynDN	S.org	w.DynDNS.org	×	
Access List Logout	User Name Password Verify Password					
	Timeout Status	24 Inactive	(hours)			
			Submit			

- 2. Check the "Enable DDNS" box to activate this function.
- 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.

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.

ipx	DDK-1800			Live Video Setup Wizard Help		
Image	Network	System	Application	Storage	Status	
Network PPPoE Port Detail Traffic Dynamic DNS HTTPS Access List Logout	Create certificate se	If-signed certificate a If-signed certificate r tificate request and Create	nanually			
	CSR Property	Certificate Pi	operty Remov	3		

- 2. Select the "Enable HTTPS secure connection" to activate this function.
- 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-1801BC. Wait for the certificate authority to issue a SSL certificate; click "Browse..." to search for the issued certificate and then click "Upload" on the Create certificate column.
- (7) The new Certification Information will show in the third column on the HTTPS setting page.

• Changing the Network Settings — Access List.

On the "Network" page at the upper left is the "Access List" icon. Follow the steps below to change the Access List settings.

1. Click on the Access List button on the upper left menu to enter the "Access List" page.

ipx		DDK-1800		Live Video S	etup Wizard Help
Image	Network	System	Application	Storage	Status
Network PPPoE Port Detail Traffic Dynamic DN5 HTTPS	ACCESS LIST ALLOW LIST Start IP address End IP address Delete allow list			Add Delete	
Access List	DENY LIST				
Logout	Start IP address End IP address Delete deny list			Add Delete	

- 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.
- 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.

Allow List:	
Start IP Address	The starting IP Address of the devices (such as a computer) which have
	permission to access the DDK-1801BC.
End IP Address	The ending IP Address of the devices (such as a computer) which have
	permission to access the DDK-1801BC.
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-1801BC.
End IP Address	The ending IP Address of the devices (such as a computer) which don't
	have permission to access the DDK-1801BC.
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.

<u>Setting the Time and Date of the system</u>

 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-1801BC.

ipx		DDK-1800 Live Video Setup Wizard Help				
Image	Network	System	Application	Storage	Status	
Time and Date DI and DO LCR User Maintenance Upgrade Firmware Logout	Time Format DD/M	TION 05:00) Bogota, Lim MVYYYY ♥ Saving ght Saving nd time manually +2:00 Month e 5 ♥	Week Day of week 1 🖌 Sunday 💙	0 00		
	End time 1 w Sunday w 0 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 w Month 5 w Day Hour 1 w Second Submit					

- 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".
- 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.

Time Zone:	Select time zone from the drop-down menu.		
Time Zone.			
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.		

• <u>Changing the System Settings — Digital Input & Output.</u>

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

ipx		D	DK-1800		Live Video Se	etup Wizard Help	
Image	Network		System	Application	Storage	Status	
Time and Date	DI AND DO						
DI and DO	DI AND DO						
ICR	Digital Input 1: T	he active	state is N.O.	🝸 ; the current sta	te detected is Open		
User	Digital Output 1:	The activ	e state is N.C). 🛩			
Maintenance	LED						
Upgrade Firmware	LED	⊙ On	OOff				
Logout	VIDEO OUTPUT	DARKS SCALE	0.00				
	VIDEO OUTPUT		OOff				
	OSD OUTPUT	⊙ On	OOff				
				Submit			

- 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".
- Select "ON" or "OFF" to enable or disable video output. Select "ON" or "OFF" to enable or disable OSD output.
- 6. Click the **Submit** button to submit the new user's settings.

Functions:	
Digital Input:	Select "N.O." or "N.C." as the active state of the Digital Input, in order to
	use the GPIO connector function.
	Select "N.O." or "N.C." as the active state of the Digital Output, in order to
Digital Output:	use the GPIO connector function.
LED	Select "ON" or "OFF" to turn this function on and off.
VIDEO OUTPUT	Select "ON" or "OFF" to enable or disable video output.
OSD OUTPUT	Select "ON" or "OFF" to enable or disable OSD output.

• <u>Changing the System Settings — ICR.</u>

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

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

ipx		DDK-1800		Live Video Se	etup Wizard Help
Image	Network	System	Application	Storage	Status
Time and Date DI and DO	ICR				
ICR User	ICR IR _ Cut Removable O Automatic	filters triggering con	dition:		
Maintenance Upgrade Firmware Logout	 Day mode Night mode Schedule mode 	Day mode(24hr)			
	IR LIGHT	From 07 🔽 00 🔊	To 18 💟 00 💌		
	IR LIGHT Off On Sync. With ICR Schedule	IR Light On(24hr) From 07	To 18 💌 00 💌		
			Submit		

- 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.

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.

ipx		DDK-1800		Live Video S	etup Wizard Help		
Image	Network	Network System Application Storage Status					
Time and Date DI and DO LCR User Maintenance Upgrade Firmware Logout	USER LIST	D	elete User				
	ADD/MODIFY USE User Name : Password: Confirm: Authority:) Operator () Viewe Add/Modify User				

- 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.

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

• <u>Changing the System Settings — Maintenance.</u>

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

ipx		DDK-1800	Live Video S	etup Wizard Help		
Image	Network	System	Application	Storage	Status	
Time and Date DI and DO LCR User Maintenance Upgrade Firmware Logout	MAINTENANC SYSTEM Save To Local Harc Load From Local H Restore To Factory	CE I Drive ard Drive Default	cept settings in	Save Configuration	Browse	

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-1801BC.

- Changing the System Settings Update Firmware.
- Click the Firmware Upgrade button on left side of "Date and Time" page to enter the "Firmware Upgrade" page.

ipx		DDK-1800		Live Video Se	etup Wizard Help	
Image	Network	System	Application	Storage	Status	
Time and Date	UPGRADE FI	RMWARE				
DI and DO	FIRMWARE INFO	RMATION				
ICR User	Current Firmware V Current Product Na		1800D			
Maintenance	UPGRADE FIRMV	/ARE				
Upgrade Firmware Logout	File Path:	B	rowseUpload			

- 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-1801BC 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

- <u>Changing the Application Settings Language Setting.</u>
- 1. Click on the Language button on the left side to enter the "Language Settings" page.

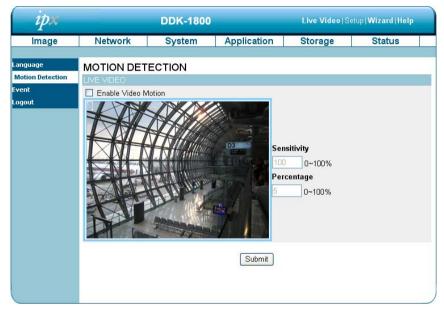
ipx		DDK-1800		Live Video S	etup Wizard Help
Image	Network	System	Application	Storage	Status
Language Motion Detection Event Logout	LANGUAGE S LANGUAGE SETT Language:		ish) 💌		
			Submit		

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

• <u>Changing the Application Settings — Motion Detection.</u>

Setting motion detection:

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



- 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.

ipx		DDK-1800		Live Video Se	etup Wizard Help	
Image	Network	System	Application	Storage	Status	
IM2ge	EVENT SETU SERVER Name Type Add V Delet MEDIA Name Type Add V Delet EVENT Name Status Sun Add V Delet RECORDING	Address/Locat e Mon Tue Wed Thr Mon Tue Wed Thr		ger	Status	
						,

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.

	DDK-1800		Live Video	Setup Wizard Help
Network	System	Application	Storage	Status
SERVER				
Server Name:				
Ermail Sender Recipier Server a User na Passwo Port This FTP Server a Port User na Passwo Remote Pas Network stora; Network stora; User na Passwo User na Passwo User na Passwo	nt email address ddress me rd server requires a se ddress me rd folder name sive mode ge storage location nple:\\my_nas\disk\ up me rd WINS server	21 21 		
	SERVER SERVER TYPE Server Name: • Email Sender of Recipier Server a User nail Passwo Port I This • FTP Server a Port User nail Passwo Remote I Pas • Network storag Network (for exar Workgro User nail Passwo Primary	Network System SERVER Server Name: Server Name: Server Name: Image: Server address Recipient email address Server address User name Password Port Image: This server requires a set Port Server address Port User name Password Port Server address Port Deserver requires a set Port Server address Port Deserver requires a set Port Server address Port Deserver requires a set Vert ork storage Network storage Network storage Network storage location (for example:\tmy_nastdiskt Workgroup User name Password Password Primary WINS server SD Card SD Card	SERVER SERVER TYPE Server Name: Server Name: Server address	Network System Application Storage SERVER Server Name:

- Enter the unique Server name. There are four types of servers supported: email server, FTP server, HTTP server and network storage.
- 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:

 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 exit the DDK-1801BC 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.

- 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-1801BC won't take any action when a trigger is activated.

Media:

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

ipx		DDK-1800		Live Video S	etup Wizard Help
Image	Network	System	Application	Storage	Status
Language Motion Detection Event Logout	MEDIA MEDIA TYPE Media name: Source: Profile Send 1 Send 1 File Name Prefix	1 V pre-event image(s) post-event image(c: d time suffix to file r 1 V ing: sec on: sec ze: Kbyte	[0~4] s) [0~7]]	

- 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:

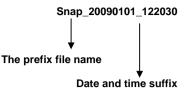
- (1) Click Add in the Media area of the Event Settings page to open. On this page, you can specify the type of media that will be sent when a trigger is activated. A total of 5 media settings can be configured.
- (2) Enter the Media Name for the media setting.
- Select the Media Type. There are three 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-1801BC has a buffer area; it temporarily holds data up to a certain limit. Enter the number of how many images to be captured before a trigger is activated. Up to 4 images can be generated.
- (c) Send post-event image(s) [0~7]: Enter the number of images to capture after a trigger is activated. Up to 7 images can be generated.

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

(d) File Name Prefix: Enter the text that will be appended to the front of the file name. For example, the file name will be in this form:



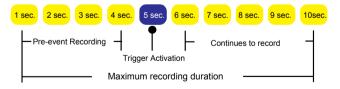
The format is: YYYYMMDD_HHMMSS

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

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

- (a) Source: Select to record video clips from a video profile.
- (b) Pre-event recording: The DDK-1801BC 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-1801BC 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.

ipx		DDK-1800	Live Video S	etup Wizard Help			
Image	Network	System	Application	Storage	Status		
Language Motion Detection Event	EVENT			_			
Logout			ting next event (For r	notion detection and	digital input]		
	TRIGGER Video motion detection Periodic Trigger every 1 minutes Digital input System boot Network Lose EVENT SCHEDULE						
	Time O Always	_	59 💌	omit			

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

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

2. Select the event trigger mode.

"Video motion detection": Motion triggered events.

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

minute.

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

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

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

3. Set the recording schedule time.

- 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-1801BC. The trigger source can be configured to use the DDK-1801BC'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-1801BC to trigger periodically as defined in minute intervals up to 99999 minutes.
 - (c) Digital input: This option allows the DDK-1801BC to use an external digital input device or sensor as a trigger source.
 - (d) System boot: This option triggers the DDK-1801BC when the power to the DDK-1801BC is disconnected.
 - (e) Network Loss: This option triggers the DDK-1801BC when the network to the DDK-1801BC 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-1801BC 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-1801BC 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.

ipx		DDK-1800		Live Video S	etup Wizard Help	
Image	Network	System	Application	Storage	Status	
Image Language Motion Detection Event Logout	RECORDING Recording entry n Enable this record Priority: normal v Source: Profile 1 RECORDING SCH V Sun V Mon S Time Always	ame: prding EDULE 2 Tue V Wed V 00 To 23 N TINGS	Thu 🗹 Fri 🗹 Sat		Status	
	Size of each file for		Kbytes (200~5000)	•		
	File Name Prefix: _	C	Submit Don't Sub	mit		

- 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-1801BC 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.

ipx		DDK-1800		Live Video Se	tup Wizard Help	
Image	Network	System	Application	Storage	Status	
SD Card	SD CARD					
Logout	SD CARD					
	Records					
	Record Ty	pe	Num of files		Size	
	Video		0		096	
	Picture		þ		096	
	sd forma	it	Total:7962400	KB, Used:12KB, Fre	e:7962388KB	

- 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.

ipx		DDK-1800		Live Video S	etup Wizard Help
Image	Network	System	Application	Storage	Status
Device Info	DEVICE INFO				
Logout	INFORMATION Model Name Device Name Time & Date Firmware Version HTML Version Activex Version MAC Address IP Address IP Subnet Mask Default Gateway Primary DNS PPPoE DDNS TV Output Mode	DDK-1800BC DDK-1800BC Mon May 23 00:15 2.00 3.0.78 2.0.0.48 00:0C:0C:01:FE:D 192.168.0.176 255 255.252.0 0.0.0 192.168.1.11 Disable Disable NTSC			

• Device information.

This page displays the DDK-1801BC log information.

ipx		DDK-1800		Live Video Se	etup Wizard Help
Image	Network	System	Application	Storage	Status
Device Info	SYSTEM LOO	3			
Log	CURRENT LOG	8			
Logout	2. 22-05-2011 23:00 3. 22-05-2011 23:00 4. 22-05-2011 23:00 5. 22-05-2011 22:56 6. 22-05-2011 22:56 9. 22-05-2011 22:56 9. 22-05-2011 22:57 10. 22-05-2011 22:47 11. 22-05-2011 22:47 13. 22-05-2011 22:47 14. 22-05-2011 22:47 15. 22-05-2011 22:47 16. 22-05-2011 22:47 17. 22-05-2011 22:47 18. 22-05-2011 22:47 18. 22-05-2011 22:47 19. 22-	238 IP CAMERA AC 238 IP CAMERA AC 232 SYSTEM SET I 231 IP CAMERA AC 254 SYSTEM SET I 250 SYSTEM BOOT 257 SYSTEM BOOT 253 SYSTEM BOOT 253 SYSTEM SET 254 SYSTEM SET 254 SYSTEM SET 254 SYSTEM SET 252 SYSTEM SET 2	TING QUIRE DHCP IP 192 R LIGHT OFF TING IR LIGHT OFF IR LIGHT OFF IR LIGHT OFF IR LIGHT OFF STING < FROM 192.168.0.48 < FROM 192.168.0.72 CQUIRE DHCP IP 19 IR LIGHT OFF	.168.0.176 .168.0.176 2.168.0.176	

- 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.
- Search DDK-1801BC's IP address: you can connect the DDK-1801BC 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-1801BC if it is "ON".
- 4. Installing an IP address in your PC or notebook.

Desktop \rightarrow Move the mouse to the Network neighborhood and click the right key of the mouse \rightarrow Choose properties \rightarrow Choose your local connection \rightarrow Choose the properties and select the configuration \rightarrow Select the TCP / IP \rightarrow Choose the properties \rightarrow 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) \rightarrow Click on the mask and the mask input: "255. 255. 255. 0" (a fixed formula) \rightarrow Click "OK" \rightarrow Click "OK".

 Desktop → open browser → Enter the DDK-1801BC's IP address in the URL→ Enter →DDK-1801BC will load.

PPPoE Settings

- Launch DDK-1801BC's home page → Choose network → Enter User Name: "root" and Password: Admin" → Click "OK'.
- Choose PPPoE → PPPoE mode: Select "ON" → Enter "Account" → Enter "Password" → Submit → Unplug the power connection.
- Power up the DDK-1801BC to receive an IP address from the ISP (this IP address is dynamic --- Each time the DDK-1801BC is powered off and on a new IP address will be obtained).

Test:

 Desktop → IE browser → Enter the DDK-1801BC IP address (as in the PPPoE settings in step 3 above) → DDK-1801BC should load.

DDNS settings

- 1. Launch browser \rightarrow Enter address to connect to DDK-1801BC \rightarrow Choose network \rightarrow Enter User name : "root" and Password : "Admin" \rightarrow Click "OK" .
- 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.
- Re-open browser → Enter address, → view DDK-1801BC 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.

5. ADVANCED OPERATION

Question 1:

How do I view live images of the DDK-1801BC via Internet Explorer on a Desktop PC or a

laptop computer in a situation where there are no monitors?

◇To obtain the IP address of the DDK-1801BC 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-1801BC'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-1801BC. Then click to go to the DDK-1801BC's home page.
- 2. Follow step 5 above and make the Route UPnP port forwarding setting.

3. Your computer can access a DDK-1801BC 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 <u>http://xxx.xxx.xxx.8080</u> on the URL entry box of the web browser to access the DDK-1801BC.

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 \rightarrow Application button \rightarrow 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.
- 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-1801BC by using its Sub Hostname via the intranet?

♦ Set the DDNS function

- 1. Click on the **Network** button on the home page.
- 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.
- Enter the DDNS Host Name, DDNS Account and DDNS Password which you created in the <u>www.dyndns.com</u> 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.

\bigcirc Use the Sub Hostname to view the DDK-1801BC

- 1. Click on the URL block at the top of the PC screen.
- 2. Enter the DDNS Host Name of the DDK-1801BC 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-1801BC.

Question 6:

How do I add or modify users and their authority to use the DDK-1801BC?

♦ 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-1801BC.

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 \rightarrow Network button \rightarrow HTTPS button
- 4. Select "Enable secure HTTPS connection".
- 5. Create certificate settings \rightarrow Create self-signed certificate manually \rightarrow 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 \rightarrow Status \rightarrow 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

	Image sensor	1/2.8" 3M Sony IMX036 CMOS sensor.
		3-9mm F1.2 1/2.7" Motorized Zoom & Focus, DC-IRIS
	Lens	Angle of View (16:9):
DDK-1801BC		(D)148.4' ~ 43.8', (H)121.2' ~ 38.1', (V)62.1' ~ 21.3'
	Minimum illumination	Color: 0.2 Lux @ F1.2; B/W: 0.01 Lux @ F1.2
	IR cut filer	Yes
	Day & Night	Auto / Day / Night / Schedule.
	Video Compression	H.264 / MPEG4 / MJPEG.
		· 4:3 - "2048x1536" (H.264 & MJPEG only), "1600x1200",
		"1024x768", "800x600", "640x480", "480x360", "320x240"
	Resolution	and "176x144".
		· 16:9 - "1920x1080", "1280x720", "800x450", "640x360",
		"480x270", "320x176" and "176x144".
		- Simultaneous H.264, MPEG4 and MJPEG.
	Video streaming	- Multi-profile: resolution / compression / frame rate / video
	-	quality.
Image	Profiles	3 (selectable)
inage	Frame rate	15 fps at 2048x1536; 25 fps at 1920x1080
	Frame rate	Support WDR @ 1080p @ 25 fps
		- Adjustable image size, quality, and bit rate.
		- Day / Night mode.
	Image settings	- Flip & Mirror.
	inage settings	- AGC, AWB, AES.
		- Time stamp and text caption overlay.
		- Privacy masks.
	Video management	SDK, including HTTP-API / ActiveX / ONVIF.
	software	-
	Audio streaming	Two-way.
Audio	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).
	Security	Multi-level password protections, IP address filtering, HTTPS
	,	encryption, User access log.
Network	Protocols	IPv4, HTTPS, HTTP, TCP, UDP, RTP/RTCP/RTSP, DHCP, NTP,
	11	FTP, SMTP, UPnP, ICMP, ARP, DDNS, PPPoE, SAMBA
	Users	Access by 10 simultaneous users.
	Firmware update	SD card / HTTP.
	Recording	SD card, SAMBA, FTP
	Pre-alarm recording	Yes.
	Advanced motion	512 zones. Sensitivity: 0 - 100 %.
Alarm		Motion Detection
Alarin	Trianan	Schedule
	Trigger	Alarm input Ethernet loss
		Etnernet loss Network/Remote digital alarm input
	Notification	SD card recording, SMTP, FTP, HTTP, alarm output.
	Notification	So card recording, Swire, FIP, HITP, alarm output.

	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
	Digital 17 O	DC)/1xground
Connectors	Earphone jack	2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line
		output]).
	Reset	Reset for factory default.
	Local storage device	SD / SDHC card slot.
	LED indicators	Power / Network / SD card.
	Power consumption	\leq 10W
		- 12V DC (DC power jack).
	Power	- 24V AC (2 pin terminal block).
	Fower	- 802.3af compliant Power over Ethernet (IEEE 802.3af. Class
		3).
	Processors	TMS320DM368.
	OS	Linux 2.6 kernel.
General	Operating	-40°C to 50°C (-40°F to 122°F).
	Temperature	-40 C 10 50 C (-40 F 10 122 F).
	Approval	CE, FCC, RoHS.
	Dimensions / Package Weights	92 x 97 x 226 mm.(H x W x D)/ 1.9 kg
		- Installation Guide.
		- CD x 1 (Includes User's Manual).
	Accessories included	- 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-1801BC management/ web page
Client PCs	One DDK-1801BC can supports 10 simultaneous client PCs.

APPENDIX 1. -How to run DDK-1801BC UPnP

The DDK-1801BC supports the UPnP (Universal Plug and Play) protocol which makes it easier for set-up. Follow these steps for UPnP use:

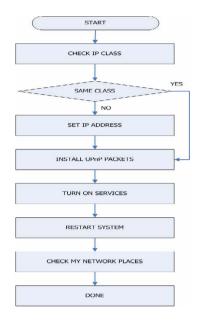


Figure 1 UPnP Setup Flow Chart

1. Check the IP class of your PC

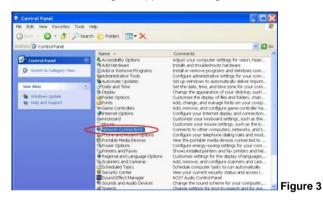
In most case Microsoft Windows[®] will assign an IP address of 169.254.*.* automatically with a subnet mask of 255.255.0.0 if the DHCP server is absent. The default IP address of a DDK-1801BC[®] is 192.168.1.168 with a subnet mask of 255.255.255.0. There won't be any communication due to different IP 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.

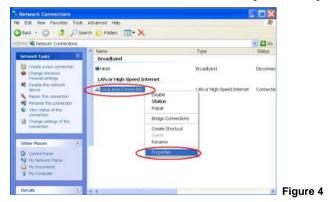


Step 2: When Control Panel appears, double-click the Network Connections icon. The

Network Connections dialog box appears. See Figure 3.



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

ieneral	Authenticatio	n Advan	ed			
Conner	ct using:					
-	Marvell Yuko	Gigabit E	themet 10/100	/1	Configure	
This co	onnection use	the followi	ng items:			
	Client for Mic					
	File and Prin			Networks		
	and a second second					
	Install		Uninstall		Properties	
Desc	Install		Uninstall	\triangleleft	Properties	
Trat		trol Protoc	ol/Internet Pro		e default wid	
Trai area dive	ription nemission Co a network prot	itrol Protoc ocol that pr acted netwo	ol/Internet Pro ovides comm orks.	unication	e default wid	
Trai area dive	ription nemission Co a network prot erse interconn	itrol Protoc ocol that pr scted netwo	ol/Internet Pro ovides comm orks. when conne	iunicatior	e default wid across	
Trai area dive	ription nemission Co a network prot erse interconn w icon in notif	itrol Protoc ocol that pr scted netwo	ol/Internet Pro ovides comm orks. when conne	iunicatior	e default wid across	
Trai area dive	ription nemission Co a network prot erse interconn w icon in notif	itrol Protoc ocol that pr scted netwo	ol/Internet Pro ovides comm orks. when conne	iunicatior	e default wid across	Figure

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.

	sutomatically if your network supports this	
ability. Otherwise, you need to propriate IP settings.	ask your network administrator for the	
and the second second		
Obtain an IP address automa		
 Use the following IP address 		
Paddress:	192 168 1 200	
Subnet mask:	255 255 255 0	
Default gateway:		
Othern DNS server address	automatically	
Use the following DNS serve	addresses:	
Preferred DNS server		
Alternate DNS server:		
	Advanced	

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

	Advanced	
nnect using		
Marvell Yukon Gig	abit Ethernet 10/100/1	Configure
is connection uses the	following items:	
Client for Microso	ft Networks	
	haring for Microsoft Netw	orks
Internet Protocol (TCP/IP)	
Install.	Uninstell	Properties
Description		
	Protocol/Internet Protoco	
diverse interconnected	that provides communic I networks.	ation across
	in area when connected	
Notify me when this co		

2. Install UPnP Packets

Follow these steps:

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



Step 2: When the Add or Remove Programs dialog box appears, click Add/Remove

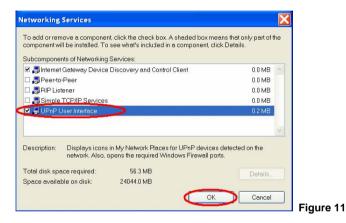
Windows Components button. See Figure 9.

16 Add or Ren	nove Programs		
Add or Ren Charge or Remove Programs Add Service Add Service Add Service Component Com	Add a program from CD-RICH or Roppy disk. See To Add a program from a CD-RICH or Roppy viak., takk. CD or Proppy Add programs from Morecont. The Jack Provide Finitures, device drivers, and system updates over the internet, doi: With Xinv, Update Finitures, device drivers, and system updates over the internet, doi: With Xinv, Update	(CD or D) (Windows Up Al Categories	wr
			Figure

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

ows Components ou can add or remove components o	f Windows XP.			B
To add or remove a component, clici the component will be installed. To s Components:			of	
Message Queuing		0.0 MB	•	
MSN Explorer		20.7 MB		
M 1 Networking Services		0.3 MB		
C 20 Other Network File and Print Se	ervices	0.0 MB		
C Cloubouk Excress		0.0 MB	4	
Description: Contains a variety of s	pecialized, network-relate	d services and protocols.		
Total disk space required	56.3 MB	Dotailo		× .
Space available on disk	24044.8 MB	Dotalio		/

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



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

Figure12.

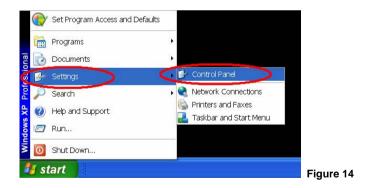
wes Components u can add or remove components of Windows X	P.	R
To add or remove a component, click the checkb ne component will be installed. To see what's in Components:		of
☐ s≇ Message Queuing	0.0 MB	~
🗆 📢 MSN Explorer	20.7 MB	-
Children Services	0.3 MB	
Other Network File and Print Services	0.0 MB	
🗋 🛗 Outlook Express	0.0 MB	¥
Description: Contains a variety of specialized, r	etwork-related services and protocols.	
otal disk space required: 56.3 MB	Details	
ipace available on disk: 24043.2 MB		

Step 6: After about one minute the UPnP installation will be finished. Click finish. See Figure 13.



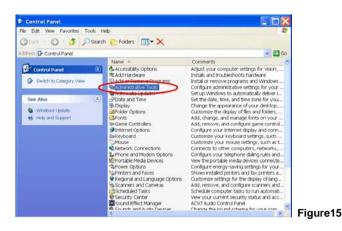
3. Turn on Services

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

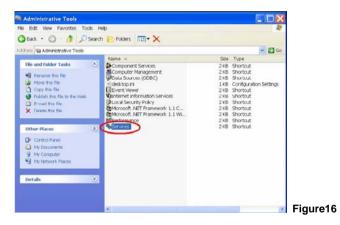


Step 1: In the Start menu, point to Settings, and then click Control Panel. See Figure 14.

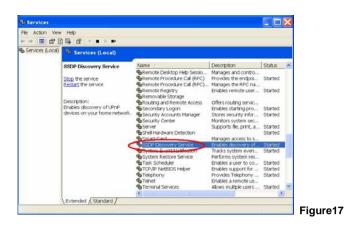
Step 2: When Control Panel appears, double-click the Administrative Tools icon. The Administrative Tools dialog box appears. See Figure 15.



Step 3: Click the Services icon in the Administrative Tools dialog box. See Figure 16.



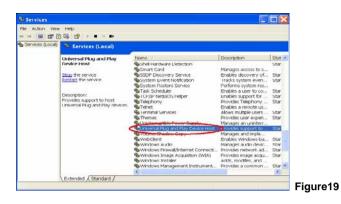
Step 4: When the Services dialog box comes up, double click the SSDP Discovery Service icon. See Figure 17.



Step 5: Choose Automatic in the Startup type and click OK to start it. See Figure 18.

	Recovery Dependencies			
Service name:	SSEIPSEV			
Display name.	SSEF Eliscovery Service			
Jeschption.	Enables discovery of UPnP devices on your home			
Path to executab C.(WINDOWS\S)	o. /stem32/svonust.exe -k.Luca/Service			
Startup type:	Automatic			
Service status:	Automatic Automa			
Start	Stop Pause Resume			
	he start parameters that apply when you start the service from			

Step 6: When the Services dialog box appears again, double click the Universal Plug and Play Device Host icon. See Figure 19.



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

Figure20.

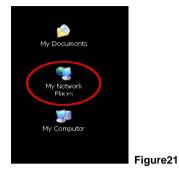
Service name:	upphost	
Service name.	4,19103t	
Display name:	Universal Plug and Play Device Host	
Description:	Provides support to nost Universal Pluq and Play Advices.	
Path to executab	le:	
C:\WINDOWS\S	/stem32\svchost.exe -k _ocalService	
Startup type.	Automatic	
<	Automatic	
Service status:	Disabled Stopped	
Start	Stop Pause Resume	
You can specify t here.	he start parameters that apply when you start the service from	
Start parameters		

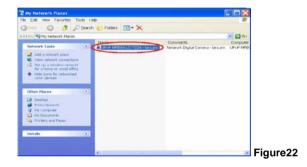
Step 8: Restart your system.

4. Scan DDK-1801BCs through My Network Place

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

You can scan all DDK-1801BCs[®] in My Network Place, as in Figure21 and Figure22 below.





Double click the **UPnP DDK-1801BC** 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 <u>www.dyndns.com</u>. In the upper right-hand corner of the main page, where there is an item, "<u>Create Account</u>", as shown in Figure 1.



Create an account

Figure 1

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 <u>Add Dynamic DNS Host</u> 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.

https://www.dyndno.com/acc	help ount/			E Ger Lets *
DN5			OyrONS.com + Dynect +	DynTLD · Corpor
C	DynDNS		Logged In User alkolevice the Service - Mr. Cet - Los Out	
	About Services	Account Support M	Wews	
My Acco	Account Summary	for abcdevice		
My Servi		Tor abcactice		
Account		Billing	Account Settings	
Billing	Vew, modify, purchase, and delete your services.	d Update your billing information, complete a	Codate your e-mail address, set profesences, and delete your	
	My Cart	purchase, and view involces.	account.	
2	thes Mr.Zones	Wew Shopping Cart	Change E-mail Address	
Searc	Add Zone Services	Active Services	Change Passeord	
	MyHosts	Order History	Change Usemane	
Searc	Add Host Services	Bling Profile and Youchers	Contact Manager	
-	Account Coopelies	Barnew Services	Malina Lists	
	MalHop Outbound	Auto Renew Settings	Move Services	
	Network Monitoring	Sync Expirations	Profesences	
	SSL Certificates		Quie Account	
	Recursive DMS			
	Saport			
	DNS. Service Level Agreement			
	Phemier Support			

Figure 4

	About Servi	ces Account Support News	
My Account	Add New Hostn	ame	that Services
My Services			
Account Upgrades SLA Premier Support		count Upgrades in your account. You cannot use some of our Host Ser the form full-functional and will add several other features. Laten More	
Zone Services Host Services	Hostnaree:	dedna org	
MailHop Outbound	Wildcard:	Yes, alas "* hostname.doman" to same settings.	
Recursive DNS Network Monitoring 155. Centificates	Service Type:	Host with IP address WebHop Redirect	
Renew Services Auto Renew Settings Sync Explicitions		O Offine Hostname	
Account Settings	IP Address:		1000
Diling		Use any detected IP address \$1250.02.2	· · · · · · · · · · · · · · · · · · ·
My Cart		TTL value it 10 tecords. Eds. TTL-	
Se then	Mail Routing:	Ves, let me configure timel routing.	
Search		Create Host	
Search]			

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-1801BC's IP Address. It will renew the IP Address automatically.

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

				DynONS.com + Dynect +
20.2				
🔿 Dyn[DNS			Logged In User abodevice McDemice - McDet - Log Out
	About Services	Account	Support	News
Ay Account	Host Services			Add these Hustmann - Head Linders Long
My Services				
Account Upgrades SLA	Hostname	Service	Details	Last Updated
SLA Premier Support	abcdevice.dendes.org	Host 60.25	0.12.2	Feb. 04, 2008 3:12 AM
Zone Services				
Host Services				
Maihke Outbound				
Recursive DNS Network Monitoring				
59. Certificates				
Renew Services				
Auto Renew Settings Sync Expeditions				
Account Settings	1			
Billing				
My Cart				
109				

Figure 6