



NETWORK CAMERA

Model: IKS-WP806

User's Manual



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18x Indoor IP PTZ Camera (IKS-WP806)
User Manual

Manual Edition 31970AD – AUGUST 2013

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Important Safeguards

1. Read Instructions

Read all the safety and operating instructions before operating the product.

2. Retain Instructions

Retain the safety instructions and user's manual for future reference.

3. Warnings

Comply with all warnings on the product and in the user's manual.

4. Follow Instructions

Follow all operating and use instructions.

5. Cleaning

Disconnect this camera from the power supply before cleaning.

6. Attachments

Do not use attachments not recommended by the camera manufacturer as they may pose safety risks.

7. Water and Moisture

Do not use this camera near water. Some examples are: near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

8. Accessories

Do not place this camera on an unstable cart, stand, tripod, bracket or table. The camera may fall, causing serious injury to a person, or serious damage to the product. Use only withstand, tripod, bracket, or table recommended by the manufacturer, or sold with the camera. Any mounting of the product should follow the manufacturer's instructions, and should use amounting accessory recommended by the manufacturer.

9. Ventilation

This camera should never be placed near or over a radiator or heat register. If this product is placed in a built-in installation, verify that there is proper ventilation so that the camera temperature operates within the recommended temperature range.

10. Power Sources

This camera should be operated only from the type of power source indicated on the information label. If you are not sure of the type of power supply at your location, consult your product dealer.

11. Power-Cord Protection

Power cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, screws and the point where they exit the product.

12. Installation

Install this camera on a secure part of the ceiling or wall. If installed on an unsecured location the camera could fall causing injury and damage.

13. Lightning

For additional protection on this camera during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the power supply and cable system. This will prevent damage to the camera due to lightning and power line surges. If lightning occurs, do not touch the unit or any connected cables in order to avoid electric shock.

14. Overloading

Do not overload the power supply or extension cords as this can result in a risk of fire or electric shock.

15. Object and Liquid Entry

Never push objects of any kind into this camera through openings as they may touch dangerous electrical points or short-out parts that could result in a fire or electrical shock. Never intentionally spill liquid of any kind on the camera.

16. Servicing

Do not attempt to service this camera yourself as opening or removing covers may expose you to dangerous electrical or other hazards. Refer all servicing to qualified service personnel.

17. Damage Requiring Service

Disconnect this camera from the power supply and refer servicing to qualified service personnel under the following conditions.

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the camera.
- c. If the camera has been submerged in water.
- d. If the camera does not operate normally by following the operating instructions in the user's manual. Adjust only those controls that are covered by the user's manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the camera to its normal operation.
- e. If the camera has been dropped or the cabinet has been damaged.
- f. When the camera exhibiting a distinct change in performance which indicates a need for service.
- g. Other trouble.

18. Replacement Parts

When replacing parts, be sure the service technician uses parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

19. Safety Check

Upon completion of any service or repairs to this camera, ask the service technician to perform safety checks to determine that the camera is in proper operating condition.

Precautions

Operating

- Before using, make sure power supply and others are properly connected.
- While operating, if any abnormal condition or malfunction is observed, stop using the camera immediately and then contact your local dealer.

Handling

- Do not disassemble or tamper with parts inside the camera.
- Do not drop or subject the camera to shock and vibration as this can damage camera.
- Care must be taken when you clean the clear dome cover. Scratches and dust will ruin the image quality of your camera. Do not use strong or abrasive detergents when cleaning the camera body. Use a dry cloth to clean the camera when it is dirty. In case the dirt is hard to remove, use a mild detergent and wipe the camera gently.

Installation and Storage

- Do not install the camera in areas of extreme temperatures in excess of the allowable range. (14°F~ 122°F / -10°C ~ 50°C)
- Avoid installing in humid or dusty places. The relative humidity must be below 90%.
- Avoid installing in places where radiation is present.
- Avoid installing in places where there are strong magnetic fields and electric signals.
- Avoid installing in places where the camera would be subject to strong vibrations.
- Never face the camera toward the sun. Do not aim at bright objects. Whether the camera is in use or not, never aim it at the sun or other extremely bright objects. Otherwise the camera may be smeared and damaged.

Should you notice any trouble

- If any trouble occurs while you are using the camera, turn off the power and contact your dealer. If you continue to use the camera when there is something wrong with it, the trouble may get worse and an unpredictable problem may occur.

Disclaimer

- We disclaim any responsibility and shall be held harmless for any damages or losses incurred by the user in any of the following cases:
 1. Fire, earthquake or any other act of God; acts by third parties; misuse by the user, whether intentional or accidental; use under extreme operating conditions.
 2. Malfunction or non-function resulting in indirect, additional or consequential damages, including but not limited to loss of expected income and suspension of business activities.
 3. Incorrect use not in compliance with instructions in this user's manual.
 4. Malfunctions resulting from misconnection to other equipment.
 5. Repairs or modifications made by the user or caused to be made by the user and carried out by an unauthorized third party.
- Notwithstanding the foregoing, Toshiba's liabilities shall not, in any circumstances, exceed the purchase price of the product.

Copyright and Right of Portrait

- There may be a conflict with the Copyright Law and other laws when a customer uses, displays, distributes, or exhibits an image picked up by the camera without permission from the copyright holder. Please also note that transfer of an image or file covered by copyright is restricted to use within the scope permitted by the Copyright Law.

Protection of Personal Information

- Images taken by the camera that reveal the likeness of an individual person may be considered personal information. To disclose, exhibit or transmit those images over the internet or otherwise, consent of the person may be required.

Usage Limitation

- The product is not designed for any "critical applications." "Critical applications" means life support systems, exhaust or smoke extraction applications, medical applications, commercial aviation, mass transit applications, military applications, homeland security applications, nuclear facilities or systems or any other applications where product failure could lead to injury to persons or loss of life or catastrophic property damage.
- Accordingly, Toshiba disclaims any and all liability arising out of the use of the product in any critical applications.

Regulation

FCC (USA) Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION: Your authority to operate this FCC verified equipment could be voided if you make changes or modifications not expressly approved by the party.

Industry Canada Information

CAN ICES-3 A / NMB-3 A



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste in accordance with Directive 2002/96/EC. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By proper waste handling of this product you ensure that it has no negative consequences for the environment and human health, which could otherwise be caused if this product is thrown into the garbage bin. The recycling of materials will help to conserve natural resources.

For more details information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Compliance is evidenced by written declaration from our suppliers, assuring that any potential trace contamination levels of restricted substances are below the maximum level set by EU Directive 2002/95/EC, or are exempted due to their application.

Warning

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE.

DO NOT OPEN THE CABINET.

THIS INSTALLATION SHOULD BE MADE BY A QUALIFIED SERVICE PERSON AND SHOULD CONFORM TO ALL LOCAL CODES.

REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

Caution

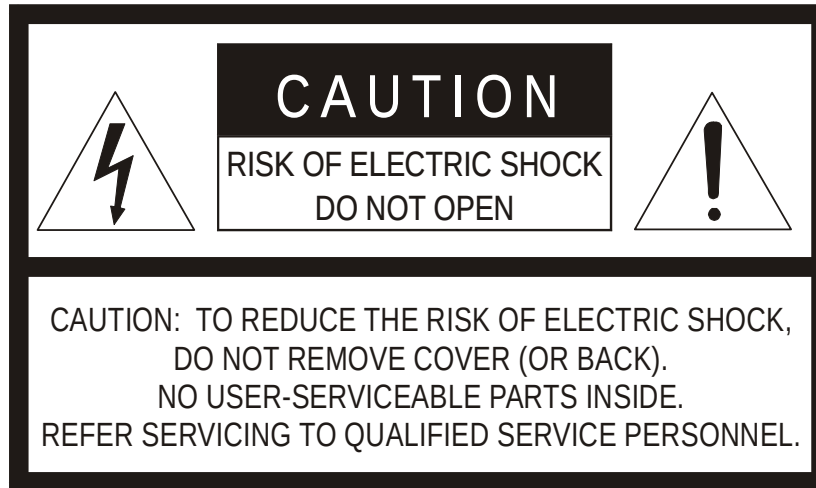


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INTRODUCTION

OVERVIEW

The IKS-WP806 is an IP PTZ camera capable of resolutions up to 1080p. The IKS-WP806 IP camera can transmit video at H.264 and MJPEG codecs. With digital wide dynamic range, the IKS-WP806 is an excellent choice for installations with difficult lighting conditions.

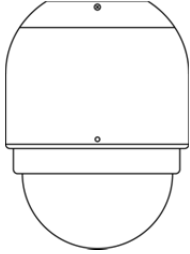
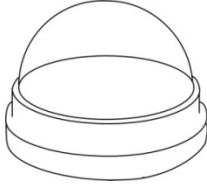
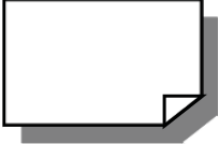
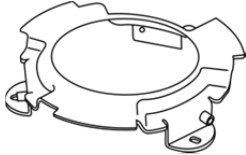
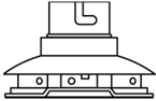
Product Features

- ONVIF compliant
- Quad streaming H.264 / MJPEG
- 18x optical zoom
- IR cut filter
- Digital wide dynamic range

GETTING STARTED

CAMERA CONTENTS

Before proceeding, please check that the box contains the items listed here. If any item is missing or has defects, DO NOT install or operate the product and contact your dealer for assistance.

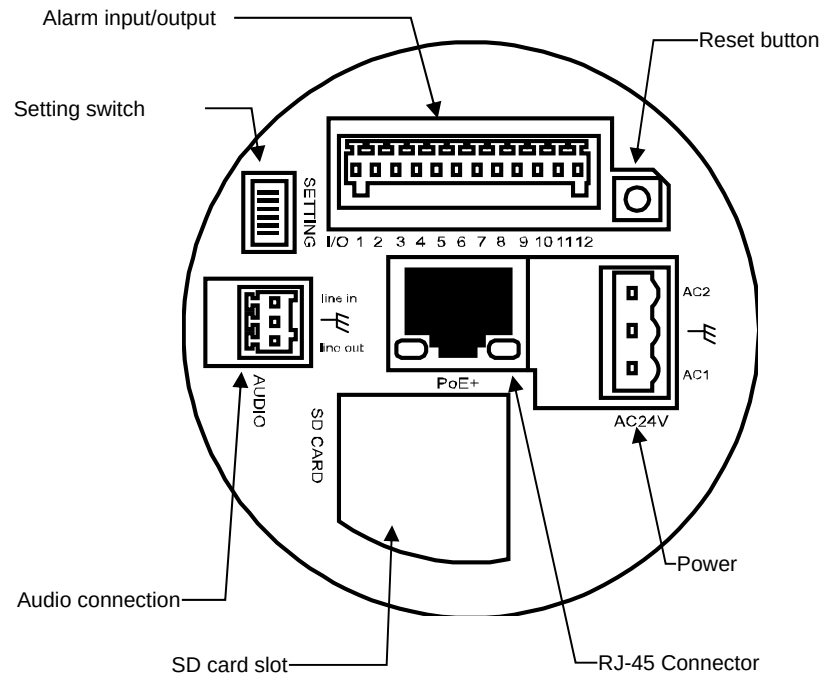
 Dome Body	 Optical Cover	 Screws
 Quick Start Guide	 CD	 Hard Ceiling Mount
 Indoor Pendant Mount		

DOME SETUP AND CABLE CONNECTION

Before installing or connecting the dome camera, please refer to this section and complete preparations for dome setup and all switch settings.

Dome Camera Setup

Switch Definition



Note Do not change the settings on the camera's setting switch. Leave the switch at the factory default settings.

Dome Cable Definition and Requirements

For operation, the IP dome camera requires a network cable to carry the video signals to the remote viewing site and a power cable to power the dome. The IKS-WP806 IP camera is capable of using Power over Ethernet + or 24vAC power.

Cable Requirements: 24vAC Power

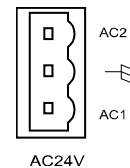
Power Wire Length Specifications

Wire Gauge	Maximum Distance	Wire Gauge	Maximum Distance
22	27 feet	14	175 feet
20	44 feet	12	279 feet
18	69 feet	10	444 feet
16	110 feet		

Note Ensure that the power supply corresponds with the dome's power requirement or the camera may be damaged. Contact a qualified maintenance engineer with any problems.

Power Connection

1. Connect one 24 volt AC power to pin **AC1**.
2. Connect frame or earth ground wire to the middle pin.
3. Connect one 24 volt AC power to pin **AC2**.



Note The 'notches' on the left side of the graphic above correspond to notches in the green plastic of the power connector.

Note Be careful not to pull the cables improperly during installation. Toshiba suggests that you fasten the cables after installation is complete.

Grounding Recommendation

The GND (ground) wire must be directly connected to the middle pin of the AC24V power connector. Failure to connect the ground can cause damage and failure of the camera and may void the warranty.

Ethernet Cable Connection

Connect one end of the CAT 5 Ethernet cable to the RJ-45 connector of the camera and the other end of the cable to the network switch or recorder.

Note In some cases, you may need to use an Ethernet crossover cable when connecting the camera directly to the recorder.

Check the status of the link indicator and activity indicator LEDs. If the LEDs are unlit, check the LAN connection.



The Green link light indicates a good network connection.

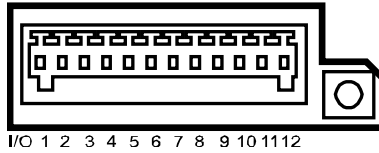
The Orange activity light flashes to indicate network activity.

Ethernet Cable Length Specifications

Cable Type	Maximum Distance
CAT5	300 feet
CAT5e	300 feet
CAT6	300 feet
CAT6a	300 feet

12-Pin Alarm Input/Output Connection

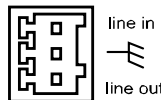
Using the 12-pin connector, installers can connect 4 digital alarm inputs and 2 digital alarm outputs. The alarm pins are serviceable for connecting alarm input and output devices such as sensors, sirens, or flashing lights to the surveillance system. For the definition of each pin, refer to the list below.



Pin	Definition
1	Alarm OUT NO 1
2	Alarm OUT NC 1
3	Alarm OUT COM 1
4	GROUND
5	Alarm OUT NO 2
6	Alarm OUT NC 2
7	Alarm OUT COM 2
8	GROUND
9	Alarm IN 4
10	Alarm IN 3
11	Alarm IN 2
12	Alarm IN 1

Audio Input/Output Connection

1. Line IN
2. GROUND
3. Line OUT



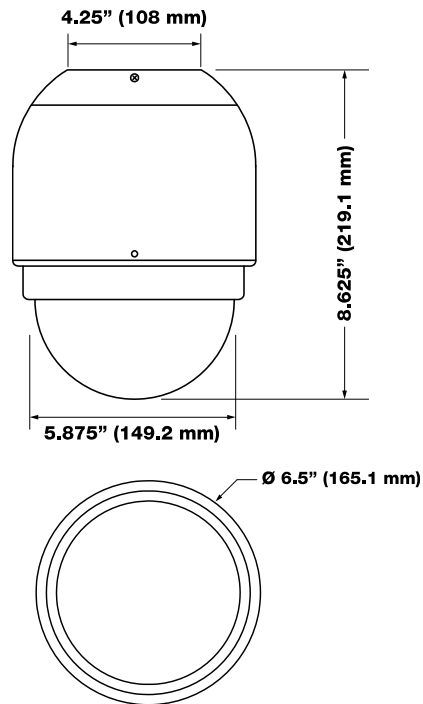
DOME INSTALLATION

OVERVIEW

Depending on your installation environment, the dome can be installed on the ceiling, on a wall, or a pole. The following section illustrates installation methods and procedures for installing the dome and mounting accessories.

DOME DIMENSIONS

The dome dimensions are Ø6.5" (165.1 mm) x 8.6" (219.1 mm).



INSTALLATION

You can install your IKS-WP806 using the included Hard Ceiling Mount or Pendant Mount.

Installation with Hard Ceiling Mount

1. Mark the positions of the three screw holes in the Hard Ceiling Mount at your chosen location.
2. Drill each hole using a 3/16" bit.
3. Set the included screw anchors in the holes, and then screw the self-tapping screws into the anchors.
4. Run the Data Cable and Ethernet cable through the center hole of the mount and connect the cable to the camera.
5. The cables can be run through a hole drilled in the ceiling, or through the gap in the side of the camera.
6. Install the camera onto the Hard Ceiling Mount by lining the camera up with the tabs, then turning the camera clockwise.
7. Tighten the screw on the side of the camera to secure this position.



Installation with Indoor Pendant Mount

1. Thread the necessary cables through the center hole of the pendant mount and connect them to the camera.
2. Attach the camera to the pendant mount by lining up the tabs and then turning the camera clockwise.
3. Tighten the screw on the side of the camera to secure it to the pendant mount.
4. Attach the pendant mount to the pole or other implement as necessary.



OPTIONAL ACCESSORIES

Mounting Accessories

Ceiling Flush Mount Kit

Part Number: JK-MFMK

1 ½" Threaded Adapter

Part Number: JK-510PA50

1 ¼" Threaded Adapter

Part Number: JK-510PA25

Large Pole Mount

Part Number: JK-510PML

50 cm Pole

Part Number: JK-510P50

25 cm Pole

Part Number: JK-510P25

Corner Mounting Plate

Part Number: JK-510C

Wall Mount Bracket (w/ Anti Drop)

Part Number: JK-510W

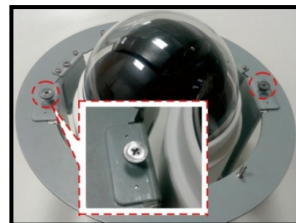
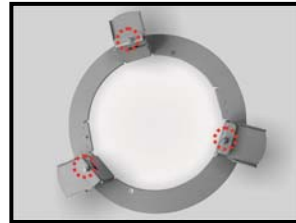
**Long Wall Mount Bracket
(w/ Anti Drop)**

Part Number: JK-510WL

Installation with Ceiling Flush Mount Kit

The Ceiling Flush Mount Kit consists of three pieces: the in-ceiling mount, the camera bracket, and the trim ring.

1. Attach the camera to the Hard Ceiling Mount that is affixed to the camera bracket.
2. Tighten the screw on the side of the camera to secure it to the camera bracket.
3. Place the ceiling sticker on the ceiling in the location you want to install the camera. Use the sticker as a guide to cut a hole in the ceiling.
4. Loosen the wings on the in-ceiling mount by loosening the screws. Turn the wings outward.
5. Place ring into the ceiling opening and fix tighten the screws to clamp the wings down and set the bracket in place.
6. Screw the wings until the in-ceiling mount is completely flush with the ceiling.
7. Run the necessary cables through the center hole of the camera bracket and connect them to the camera.
8. Align the camera bracket with the in-ceiling mount and set into place.
9. Use the included screws to attach the two components.
10. Clip the trim ring to the in-ceiling mount to complete the installation.



LOCATE CAMERA

SURVEILLIX DEVICE SEARCH

Use the included Device search software to easily find your network cameras for initial setup. The Surveillix Device Search software is included on the CD with all Surveillix IP devices.

Installation

You can install Device search on any personal computer (PC) or laptop using the software CD included with your Surveillix IP camera or by downloading the program from toshibasecurity.com.

Note Device search will only work on PCs or laptops that use a Windows operating system. It is compatible with Windows XP, Vista, 7, and 8.

Starting Device search

After installing the program on your PC or laptop, open the program to begin configuring your cameras.

To access Device search on an Toshiba recorder, you must operate the recorder in Windows Mode.

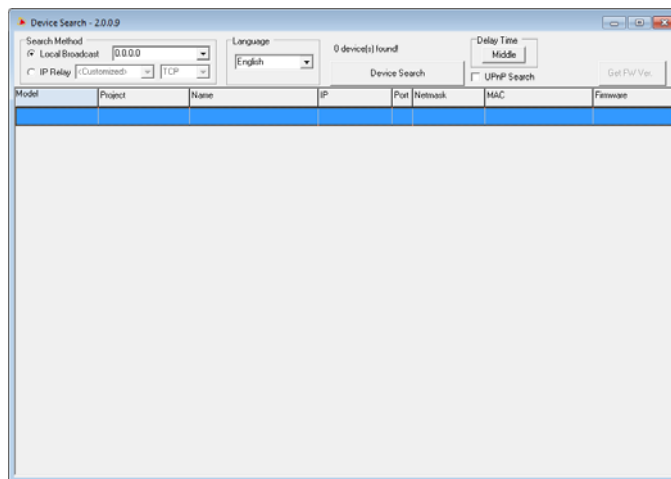
1. In the Live Screen, click **Exit**.
2. Click **Restart in Windows Mode**.
3. Click **OK**.
4. Double-click **Device search**.

Device Addressing

The functions on the Device Addressing tab allow you to find, configure, and view network cameras.

Finding Network Devices

1. Click **Device Search**.
2. To narrow your search by **Camera Model**, **Project**, or **Camera Name**, select your desired criteria from the appropriate lists.



SETUP & CONFIGURATION

CONNECTING TO THE CAMERA

1. Locate the camera on the **Device search** list.
2. Double-click the camera to open the Viewer software in your web browser.
3. Log in to the camera with the appropriate **User Name** and **Password**.

Note The default User name is **Admin** and the default Password is **1234**. The username and password are case sensitive. Toshiba recommends you change the Admin password for security reasons.

Administrator/User Privileges

The Administrator account has the authority to configure the IP camera and authorize users' access to the camera. The User accounts have access to the camera with limited authority.

Connecting a Stream

Surveillix IP cameras are optimized for use with Toshiba recorders, but you can also connect to your Surveillix IP cameras using third party software like VLC media player (<http://www.videolan.org>).

To connect the camera you may need to provide the stream URL. All Surveillix IP cameras are capable of delivering two RTSP streams, as well as streaming MJPEG over HTTP. The stream URLs are listed below.

rtsp://<ip address>/mjpeg

rtsp://<ip address>/mpeg4

rtsp://<ipaddress>/h264

http://<ipaddress>:8008

The MJPEG over HTTP stream is identified by a port number. The default port is 8008; this port can be configured in the cameras **Network** page:

Home System Streaming Camera Logout

System
Security
Network
DDNS
Mail
FTP
HTTP
Application
Motion detection
Storage management
Recording
File location
Iris adjustment
View log file
View user information
View parameters
Factory default
Software version
Software upgrade
Maintenance

Network

General

☐ Get IP address automatically

☒ Use fixed IP address

IP address 10.4.5.86

Subnet mask 255.0.0.0

Default gateway 10.0.0.50

Primary DNS 10.0.0.19

Secondary DNS 0.0.0.0

☐ Use PPPoE

User name

Password

Save

Advanced

Web Server port 80

RTSP port 554

MJPEG over HTTP port 8008

Save

UPnP Setting

☒ Enable UPnP

☐ Enable UPnP port forwarding

Friendly name CM-730

Save

Connecting Over the Internet

You may experience some challenges connecting to Surveillix IP cameras over a Wide Area Network (WAN) connection. This is due to the fact that the IKS-WP806 streams video over RTSP. RTSP is an excellent protocol for media and is now used on many IP cameras (including Surveillix) as the default streaming option.

However, RTSP is not suitable for transmission between two locations using two different routers. In this case, the client (for example, the Surveillix server software) connects to the camera, then requests a stream. The camera uses that connection to return a stream, but since the connection originated on the client side and has now switched to the camera (remote) side, the router does not have any way to determine where the traffic should be routed, so no video appears at the recorder.

There are three ways to solve this problem.

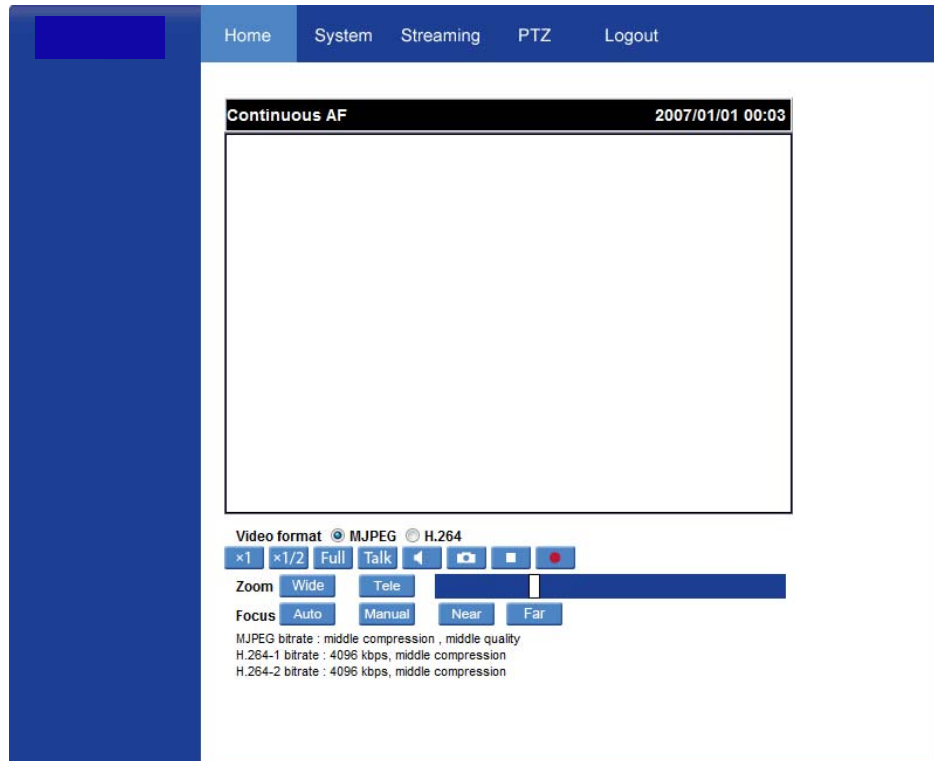
1. Connect modems on both sides directly to the recorder and camera. If there is no router, no network address translation is needed.
2. Use routers with VPN support and set up a small VPN. When using this method, the traffic will be treated as though it were all on the local network.
3. **(Best solution)** – Use routers with **connection tracking**. This is quite easy; VOIP also uses RTSP and faces the same challenges. If a router is marketed as having "VOIP Support", it will have the necessary connection tracking capability to allow any type of RTSP communication (not just VOIP).

With proper planning and the correct equipment, RTSP cameras can stream over the WAN to a recording device for minimal additional cost and labor.

Please contact Toshiba support if you require any additional information on these topics.

VIEWER SOFTWARE

To access the setup menu, you need to install the viewer software on your PC or DVR. The viewer software will install automatically the first time you connect to the camera. If your internet browser doesn't install the viewer software, check the security settings or ActiveX controls and plug-in settings. If your internet browser asks for permission to install the ActiveX control, you must allow the ActiveX control to continue the installation.



Viewer Tabs

Home – Monitor live video.

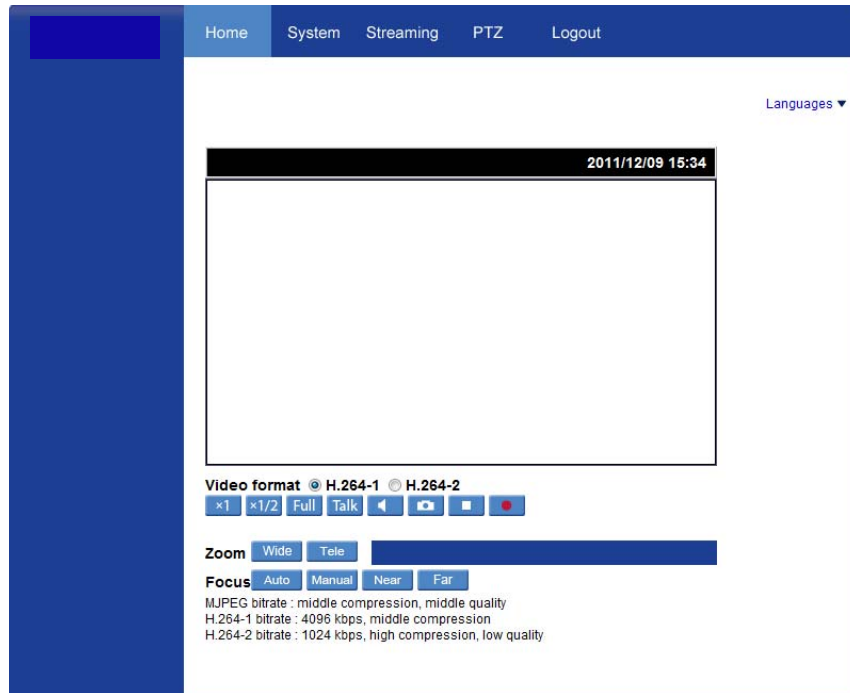
System – Set the host name, system time, root password, and network related settings. (Admin access only)

Streaming – Modify the video resolution and select the audio compression type.

PTZ – Adjust the camera parameters including Exposure, White Balance, Backlight Compensation and program functions including Preset, Cruise, Auto Pan and Sequence.

Logout – Change user.

Home



Screen Size Adjustment

Image display size can be adjusted to x1/2 and full screen via the related buttons. To switch between the normal view mode and full screen view mode, users can also move the cursor to the live video pane and right-click to display the screen options. Click Normal View or Fullscreen to set the image display mode.

Talk

The Talk function allows the local site to talk to the remote site (camera location). This function is only available if the local site has a connected microphone, the remote site has connected speakers, and the local user has been granted access. Please refer to the **Security: Add user > Talk/Listen** section for further details. This function is only available to users who have been granted this privilege by the Administrator.

Listen

The Speaker function allows the local site to listen to audio from the remote site (camera location). This function is only available if the local site has connected speakers, the remote site has a connected microphone, and the local user has been granted access. Please refer to the **Security: Add user > Talk/Listen** section for further details. This function is only available to users who have been granted this privilege by the Administrator.

Snapshot

Click the Snapshot button, and a JPEG snapshots will automatically be saved in the designated location on the local workstation. The default place of saving snapshots is: C:\. This location can be changed in File Location under the System menu.

Note If you are using Windows Vista or 7, you will need to change the snapshot location. Windows UAC does not allow internet programs to write directly to C:\ for security reasons.

Record

Click the Record button to start recording live video; press the record button again to stop recording live video, automatically saving an AVI video clip to the designated location on the local workstation. The default place of saving video clips is: C:\. This location can be changed in File Location under the System menu.

Note If you are using Windows Vista or 7, you will need to change the video clip location. Windows UAC does not allow internet programs to write directly to C:\ for security reasons.

Pan/Tilt Control

To implement pan/tilt control, move the cursor to the live video pane and drag the pointer  in the desired direction.

Zoom Adjustment



Click on the **wide/tele** buttons to control zoom in/out. Or move the cursor to the zoom adjustment bar and click the desired position to change the room ratio. Or you can zoom in/out by first moving the cursor to the live video pane and rotating the mouse wheel.

Focus Adjustment



Auto Focus (Continuous AF):

Click **Auto** to enable auto focus mode. In this mode, the camera will automatically and continuously adjust focus regardless of zoom changes or any view changes. The Focus status will also be displayed above the live video pane.

Manual Focus:

Click on **Manual** to adjust focus manually via the **Near** and **Far** buttons. The status will also be displayed above the live video pane.

System

Note The **System** tab is only accessible by the Administrator.

System

The screenshot shows a web interface with a top navigation bar containing 'Home', 'System' (selected), 'Streaming', 'PTZ', and 'Logout'. On the left is a sidebar menu with items: System, Security, Network, DDNS, Mail, FTP, HTTP, Application, Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default, Software version, and Software upgrade. The main content area is titled 'System' and contains the following fields:

- Host Name :** CM-816
- Time zone :** GMT+00:00 Gambia, Liberia, Morocco, England
- ☐ **Enable daylight saving time**
 - time offset: 01:00:00
 - Start date: Jan 1st Sun Start time: 00:00:00
 - End date: Jan 1st Sun End time: 00:00:00
- ☒ **Sync with computer time**
 - PC date: 2011/12/01 [yyyy/mm/dd]
 - PC time: 15:22:13 [hh:mm:ss]
- ☒ **Manual**
 - Date: 2007/01/01 [yyyy/mm/dd]
 - Time: 00:00:00 [hh:mm:ss]
- ☐ **Sync with NTP server**
 - NTP server: 0.0.0.0 [host name or IP address]
 - Update interval: Every hour
 -

Host Name

The Host Name is used to identify the camera on your system. If camera based Motion Detection is enabled and is set to send alarm message by Mail/FTP, the host name entered here will display in the alarm message.

Time Zone

Select the appropriate time zone from the dropdown.

Enable Daylight Savings Time

Select to enable daylight savings time, then select the offset, start date and end date. In North America the typical offset is one hour (01:00:00); the start is the second Sunday in March at 2AM (02:00:00), and the end is the first Sunday in November at 2AM (02:00:00).

Sync with Computer Time

Select to synchronize the camera date and time with the connected PC or DVR.

Manual

Set video date and time manually.

Sync with NTP Server

Network Time Protocol (NTP) is an alternate way to set your camera's clock by synchronizing with a NTP server. Specify the server you wish to synchronize in the **NTP Server** box. Then select an **Update Interval**. For more information about NTP, visit www.ntp.org.

Security

The screenshot shows a web interface with a top navigation bar containing 'Home', 'System', 'Streaming', 'PTZ', and 'Logout'. On the left is a sidebar menu with categories: 'System' (containing 'Security'), 'Network', and 'Application'. The 'Security' section is expanded, showing sub-items: 'User', 'HTTPS', 'IP filter', and 'IEEE 802.1X'. The main content area is titled 'Security' and contains three sections: 'Admin Password' with fields for 'Admin password' and 'Confirm password' followed by a 'Save' button; 'Add User' with fields for 'User name' and 'User password', checkboxes for 'I/O access', 'Talk', 'Camera control', and 'Listen', and an 'Add' button; and 'Manage User' with a dropdown menu showing '-- no user --' and 'Delete' and 'Edit' buttons.

Admin Password

To change the administrator password, type a new password in the Admin Password box and confirm below.

Note The maximum length of the password is 14 characters. The following characters are valid: A-Z, a-z, 0-9, !#\$%&'-.@^_~.

Add User

The user name and passwords are limited to 16 characters. There is a maximum of twenty user accounts

1. Type the new User name and Password
2. Select the appropriate check boxes to give the user Camera Control, Talk and Listen permissions.

I/O access – Basic functions that enable users to view video when accessing to the camera.

Camera control – Allows the User to change camera parameters on the Camera tab.

Talk/Listen --Talk and Listen functions allow the user at the local site (DVR) to communicate with, the administrator at the remote site.

3. Click Add.

Delete User

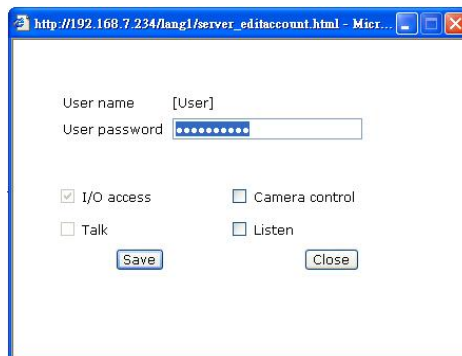
1. Select the user name on the **User Name** list
2. Click **Delete** to remove the user.

Edit User

1. Select a **User Name** list under Manage User.
2. Click **Edit**, and then user password and permissions.
3. Type a new password or the existing password in the **User Password** field.

Note You must type a password in the User password box to make any changes to an account.

Note For security reasons, every time the user properties are opened the access check boxes are automatically cleared. Make sure you select any user access options each time you edit the user properties.



http://192.168.7.234/lang1/server_editaccount.html - Micr...

User name [User]

User password

☒ I/O access ☐ Camera control

☐ Talk ☐ Listen

Save Close

Network

Home System Streaming PTZ Logout

System Security Network Basic QoS SNMP UPnP DNS Mail FTP HTTP Application Motion detection Storage management Recording File location View log file View user information View parameters Factory default Software version

Network

General

☐ Get IP address automatically

☒ Use fixed IP address

IP address: 10.253.253.172

Subnet mask: 255.0.0.0

Default gateway: 10.0.0.51

Primary DNS: 10.0.0.19

Secondary DNS: 10.0.0.55

☐ Use PPPoE

User name:

Password:

Save

Advanced

Web Server port: 80

RTSP port: 554

MJPEG over HTTP port: 8008

HTTPS port: 443

Save

IPv6 Address Configuration

☐ Enable IPv6

Address:

Save

You can choose to use a fixed IP address or dynamic (DHCP) IP address for the camera.

Get IP address automatically (DHCP)

The camera comes preconfigured with a fixed IP address.

Note Each camera has a unique Media Access Control (MAC) address, which can be used to identify the camera on the network. Record the IP Camera's MAC address, which can be found using the Surveillix Device search application and on the label of the camera, for identification in the future.

Use fixed IP address

To set up a new static IP address:

1. Select the Use fixed IP address option.
2. Type a new IP address in the **IP address** box.
3. Type a new address in the Default Gateway box.
4. Click **Save** to confirm the new setting.

When using static IP address to log in to the IP Camera, you can access it either through Surveillix Device search software or type the IP address directly in the Address bar of your internet browser.

General

- **IP address** – The IP Address is necessary for network identification.
- **Subnet mask** – Used to determine if the destination is in the same subnet. The default value is 255.255.255.0.
- **Default gateway** – Used to forward frames to destinations on different subnets or for internet access.
- **Primary DNS** – The primary domain name server that translates hostnames into IP addresses.
- **Secondary DNS** – A secondary domain name server that backups the primary DNS.

Advanced

- **Web Server port** – Defines the port that Internet Explorer uses to connect over the web and view video. If this port is changed then the new port must be defined when attempting to web connect (ex: if your camera's IP address is 192.168.0.100 and you change the web port to 8001, then you must type http://192.168.0.100:8001 in your browser).

Note This is also the port used in Surveillix Server Software.

- **RTSP port** – The default RTSP port is 554; setting range: 1024 ~65535.
- **MJPEG over HTTP port** – The default HTTP Port is 8008; setting range: 1024 ~65535.
- **HTTPS port** – The default HTTPS Port is 443; setting range: 1024 ~65535.

Note No port number can be used in duplication on more than one item.

IPv6 Address Configuration

To enable IPv6 select **Enable IPv6** and click **Save**. See your network administrator if you are unsure of your network configuration.

QoS (Quality of Service)

Quality of Service allows you to prioritize network traffic services of the camera's functions. The QoS function utilizes the Differentiated Services prioritized using Codepoint values (DSCP).

Note Routers and switches on the network must be QoS or DSCP capable, and have these settings enabled for this function to operate on your network.

DSCP Settings

The DSCP value range is 0 to 63. The default value is 0, which indicates the function is disabled; and rates 1 as the highest priority, and 63 as the lowest priority.

- **Video DSCP:** prioritize video streaming over HTTP or RTSP
- **Audio DSCP:** prioritize audio streaming
- **Management DSCP:** prioritize web interface traffic over HTTP

SNMP

With Simple Network Management Protocol (SNMP) enabled, the camera can be monitored and managed remotely with a network management system. Contact your network administrator if you are not familiar with SNMP setup.

SNMP v1/v2

- **Enable SNMP v1**
- **Enable SNMP v2**
- **Read Community:** Specify the community name that has read-only access.
- **Write Community:** Specify the community name that has read/write access.

Traps for SNMP v1/v2

Traps are used to send a message to the network management system for important events or status changes.

- **Enable Traps:** enables trap reporting
- **Trap Address:** enter the IP address of the network management system
- **Trap Community:** enter the community to use when sending trap messages

UPnP (Universal Plug and Play)

- **Enable UPnP:** When enabled the camera will appear in My Network Places on Windows computers running UPnP on the same network.
- **Enable UPnP Port Forwarding:** When enabled the camera will attempt to open the web server port on the router automatically.
- **Friendly Name:** Set a name to easily identify the camera.

DDNS

DDNS (Dynamic Domain Name Service) is a service that allows a connection to an IP address using a hostname (URL) address instead of a numeric IP address. Most Internet Service Providers use Dynamic IP Addressing that frequently changes the public IP address of your internet connection; this means when connecting to the camera over the internet you need to know if your IP address has changed. DDNS automatically redirects traffic to your current IP address when using the hostname address.

The screenshot shows a web interface with a top navigation bar containing 'Home', 'System', 'Streaming', 'PTZ', and 'Logout'. On the left is a sidebar menu with items: System, Security, Network, DDNS, Mail, FTP, HTTP, Application, Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default, Software version, and Software upgrade. The main content area is titled 'DDNS' and contains the following text: 'Dynamic DNS Use Dynamic DNS If You Want To Use Your DDNS Account.' Below this is a checkbox labeled 'Enable DDNS'. To the right of the checkbox are four input fields: 'Provider' (a dropdown menu showing 'DynDNS.org(Dynamic)'), 'Host name', 'Username/E-mail', and 'Password/Key'. A 'Save' button is located at the bottom right of the form.

- **Enable DDNS** – Select the check box to enable DDNS.
- **Provider** – Select a DDNS host from the Provider list.
- **Host name** – Type the registered domain name in the field.
- **Username/E-mail** – Type the username or e-mail required by the DDNS provider for authentication.
- **Password/Key** – Type the password or key required by the DDNS provider for authentication.

Mail

The camera can send an e-mail via Simple Mail Transfer Protocol (SMTP) when motion is detected or when the sensor input is activated. SMTP is a protocol for sending e-mail messages between servers. SMTP is a relatively simple, text-based protocol, where one or more recipients of a message are specified and the message text is transferred. The configuration page is shown as follows:

The screenshot shows a web interface for configuring the camera's mail settings. The top navigation bar includes links for Home, System (selected), Streaming, PTZ, and Logout. On the left, a sidebar menu lists various system settings: System, Security, Network, DDNS, Mail (selected), FTP, HTTP, Application, Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default, Software version, and Software upgrade. The main content area is titled 'Mail' and contains an 'SMTP' section. This section allows for configuring two SMTP accounts. The first account fields are: '1st SMTP (mail) server' (empty), '1st SMTP (mail) server port' (set to 25), '1st SMTP account name' (empty), '1st SMTP password' (empty), and '1st recipient email address' (empty). The second account fields are: '2nd SMTP (mail) server' (empty), '2nd SMTP (mail) server port' (set to 25), '2nd SMTP account name' (empty), '2nd SMTP password' (empty), and '2nd recipient email address' (empty). A 'Sender email address' field is also present at the bottom of the SMTP section, which is currently empty. A 'Save' button is located at the bottom right of the configuration area.

SMTP	
1st SMTP (mail) server	
1st SMTP (mail) server port	25
1st SMTP account name	
1st SMTP password	
1st recipient email address	
2nd SMTP (mail) server	
2nd SMTP (mail) server port	25
2nd SMTP account name	
2nd SMTP password	
2nd recipient email address	
Sender email address	

Two sets of SMTP accounts can be configured. Each set includes SMTP Server, Account Name, Password and E-mail Address settings. For specific SMTP server information, contact your network service provider.

FTP

The screenshot shows a web interface for configuring FTP settings. At the top, there is a navigation bar with links: Home, System (selected), Streaming, PTZ, and Logout. On the left side, there is a sidebar menu with the following items: System, Security (with a dropdown arrow), Network (with a dropdown arrow), DDNS, Mail, FTP (highlighted), HTTP, Application, Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default, Software version, and Software upgrade. The main content area is titled 'FTP' and contains the following configuration fields:

- 1st FTP server: [Text input field]
- 1st FTP server port: [Text input field with value 21]
- 1st FTP user name: [Text input field]
- 1st FTP password: [Text input field]
- 1st FTP remote folder: [Text input field]
- ☐ 1st FTP passive mode
- 2nd FTP server: [Text input field]
- 2nd FTP server port: [Text input field with value 21]
- 2nd FTP user name: [Text input field]
- 2nd FTP password: [Text input field]
- 2nd FTP remote folder: [Text input field]
- ☐ 2nd FTP passive mode

At the bottom right of the configuration area, there is a 'Save' button.

The camera can send alarm message to a specific File Transfer Protocol (FTP) site when motion is detected or when the sensor input is activated. You can assign alarm message to up to two FTP sites.

- Enter the FTP details, which include server, server port, user name, password and remote folder, in the appropriate boxes and click save when finished.

HTTP

The screenshot shows a web management interface with a dark blue header and a left sidebar. The header contains navigation links: Home, System (active), Streaming, PTZ, and Logout. The sidebar lists various system settings: System, Security, Network, DDNS, Mail, FTP, HTTP (selected), Application, Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default, Software version, and Software upgrade. The main content area is titled 'HTTP' and contains configuration fields for two HTTP servers. Each server has fields for the server address, user name, and password. A 'Save' button is located at the bottom right of the configuration area.

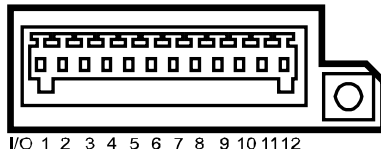
HTTP	
1st HTTP server	
1st HTTP user name	
1st HTTP password	
2nd HTTP server	
2nd HTTP user name	
2nd HTTP password	
Save	

The camera can send alarm messages to a specific Hypertext Transfer Protocol (HTTP) site when motion is detected or when the sensor input is activated. You can assign alarm messages to up to two HTTP sites.

- Enter the HTTP details, which include server, user name and password, in the appropriate boxes and click **Save** when finished.

Application

The IKS-WP806 supports 4 digital alarm inputs and 2 digital alarm outputs. Make sure the alarm connections are properly wired before starting to configure alarm related settings on the Application screen. Refer to the pin definition table below for alarm system wiring.



Pin	Definition
1	Alarm OUT NO 1
2	Alarm OUT NC 1
3	Alarm OUT COM 1
4	GROUND
5	Alarm OUT NO 2
6	Alarm OUT NC 2
7	Alarm OUT COM 1
8	GROUND
9	Alarm IN 4
10	Alarm IN 3
11	Alarm IN 2
12	Alarm IN 1

Alarm Pin Selection

The screenshot shows a web application interface with a dark blue header and a left sidebar. The header contains navigation links: Home, System (active), Streaming, PTZ, and Logout. The sidebar lists various system settings: System, Security, Network, DDNS, Mail, FTP, HTTP, Application, Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default, Software version, and Software upgrade. The main content area is titled 'Application' and contains a sub-section 'Alarm pin selection'. This section displays a table with three columns: Alarm, Switch, and Type. The table lists four alarm pins, all with 'Off' switches and 'Normal close' types. Below the table is an 'Edit' button.

Alarm	Switch	Type
1.	Off	Normal close
2.	Off	Normal close
3.	Off	Normal close
4.	Off	Normal close

[Edit](#)

Select an alarm pin from the **Alarm Pin Selection** box and click **Edit** to start alarm programming.

Alarm Status Settings

Alarm	Switch	Type
1.	Off	Normal close
2.	Off	Normal close
3.	Off	Normal close
4.	Off	Normal close

Alarm pin1 status

Alarm setting

Alarm switch: Off Alarm type: Normal close

Triggered action

☒ Enable alarm output ☐ Enable alarm output 2

☐ Send message by FTP ☐ Send message by E-Mail

☐ Upload image by FTP ☐ Upload image by E-Mail

☐ PTZ Function ☐ Send HTTP notification

☐ Record stream to sd card

File name

File name: image.jpg

☒ Add date/time suffix

☐ Add sequence number suffix (no maximum value)

☐ Add sequence number suffix up to 0 and then start over

☐ Overwrite

Save

Alarm Switch

- **Alarm Switch** – Enable or disable the alarm function.
- **Alarm Type** – Select an alarm type, Normal close or Normal open, that corresponds with the alarm application.

Trigger Action (Multi-Option)

Specify alarm actions that will take place when the alarm is triggered.

- **Enable Alarm Output** – Select this option to activate the alarm output.
- **Record Stream to SD Card** – Select this option to record to an internally installed SD card when this alarm is activated.

- **PTZ Function** – Assign a PTZ function (Preset, Tour, Auto Scan or Pattern) for the camera to perform when this alarm is activated.

Note If Preset is selected, you will be prompted to enter a Dwell Time (1~256). This is the time in seconds that the camera will remain at that Preset location, and then it will return to the location that it was pointing at the time the alarm occurred.

Note Refer to the sections on Presets, Tours, Auto Scans, or Patterns later in this manual for more details.

- **Send Message by FTP/E-Mail** – Select to send an alarm message by FTP and/or E-Mail when this alarm is activated.
- **Upload Image by FTP/E-Mail** – Select to send an image by FTP and/or E-Mail when this alarm is activated.
- **Send HTTP Notification** – Select to send a notification to a HTTP server.

Note E-Mail, FTP, and HTTP options will also need to be configured within their corresponding menus. See the Mail, FTP or HTTP sections previously in this manual for more details.

File Name

Enter a file name in the box, ex. image.jpg. The uploaded image's file name format can be set in this section. Please select the one that meets your requirements.

- **Add date/time suffix**
File name: imageYYMMDD_HHNNSS_XX.jpg
Y: Year, M: Month, D: Day
H: Hour, N: Minute, S: Second
X: Sequence Number
- **Add sequence number suffix (no maximum value)**
File name: imageXXXXXXXX.jpg
X: Sequence Number
- **Add sequence number suffix (limited value)**
File Name: imageXX.jpg
X: Sequence Number
The file name suffix will end at the number being set. For example, if the setting is up to "10," the file name will start from 00, end at 10, and then start all over again.
- **Overwrite** – The original image on the FTP site will be overwritten by the new uploaded file with a static filename.

Motion Detection

Motion Detection allows the camera to detect motion and trigger alarms when motion in the detected area exceeds the determined sensitivity threshold value.

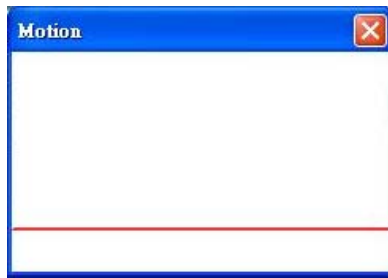
The screenshot shows a web interface for configuring motion detection. On the left is a sidebar menu with categories: System, Security, Network, DDNS, Mail, FTP, HTTP, Application, and a list of sub-items including Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default, Software version, and Software upgrade. The main content area is titled 'Motion Detection' and has tabs for Home, System, Streaming, PTZ, and Logout. The 'Motion Detection' tab is active. It contains a 'Motion Detection' section with radio buttons for 'Off' (selected) and 'On'. Below this is the 'Motion Detection Setting' section with four input fields: 'Sampling pixel interval [1-10]' set to 1, 'Detection level [1-100]' set to 10, 'Sensitivity level [1-100]' set to 80, and 'Time interval(sec) [0-7200]' set to 10. The 'Triggered Action' section has checkboxes for 'Enable alarm output', 'Record stream to sd card', 'Send alarm message by FTP', 'Upload image by FTP', 'Send HTTP notification', 'Send alarm message by E-mail', and 'Upload image by E-Mail'. Below these is a 'File Name' field set to 'image.jpg' and four radio buttons for naming conventions: 'Add date/time suffix' (selected), 'Add sequence number suffix (no maximum value)', 'Add sequence number suffix up to [0] and then start over', and 'Overwrite'. A 'SAVE' button is at the bottom. On the right, there is a 'Live View' pane showing a camera feed of a parking lot. A red rectangular box is drawn over a portion of the feed, indicating the motion detection area. Below the feed is a 'Motion Detection Windows' section with 'add' and 'delete' buttons.

On the Motion Detection page, there is a motion detection window (red box) displayed on the Live View Pane. The Motion Detection window defines the motion detection area. To change the size of the Motion Detection window, drag the edge of the frame to resize.

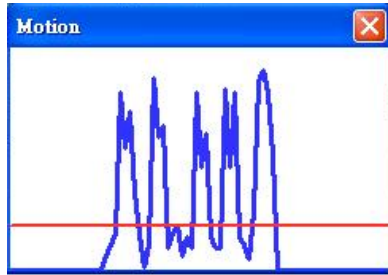
You can add up to 10 motion detection windows.

- Click **Add** under the Live View Pane to add a Motion Detection window.
- To delete a Motion Detection window, use the mouse to select the frame and click **delete**.

When motion detection is activated, the **Motion** pop-up window will open.



When motion is detected, the signals will be displayed on the Motion window as shown below



Motion Detection

Turn motion detection on or off. The default setting is **Off**.

Motion Detection Setting

In the Motion window the red line provides a motion detection threshold indication; and the blue line provides a representation of motion being detected. For the camera to register a motion event, the blue line must move above the red line. After changing any of these four settings you must click **Save** to apply the change.

- **Sampling pixel interval [1-10]** – Default value is 10, which means system will take one sampling pixel for every 10 pixels.
- **Detection level [1-100]** – Default detection level is 10. This item sets the detection level for each sampling pixel; the smaller the value, the more sensitive it is.
- **Sensitivity level [1-100]** – The default sensitivity level is 80, which means if 20% or more sampling pixels are detected as changed, the system will detect motion. The bigger the value, the more sensitive it is. As the sensitivity value is increased, the red horizontal line in the motion indication window will be lowered accordingly.
- **Time interval (sec) [0-7200]** – The default interval is 10. The value is the interval between each detected motion event.

Triggered Action

Once motion detection has been fine tuned, the Triggered Action can be configured if you want the camera to take one of these actions upon sensing motion.

- **Enable Alarm Output** – Select to trigger the alarm output on the camera on motion detection.
- **Record Stream to SD Card** – Select this option to record to an internally installed SD card when this alarm is activated.
- **Send Alarm Message by FTP/E-Mail** – Select to send an alarm message by FTP and/or E-Mail when this alarm is activated.
- **Upload Image by FTP/E-Mail** – Select to send an image by FTP and/or E-Mail when this alarm is activated.
- **Send HTTP Notification** – Select to send a notification to a HTTP server.

Note E-Mail, FTP, and HTTP options will also need to be configured within their corresponding menus. See the Mail, FTP or HTTP sections previously in this manual for more details.

File Name – Enter a file name in the box (the examples below used “image.jpg” for the file name). The uploaded image’s file name format can be set in this section. Please select the one that meets your requirements.

- **Add date/time suffix**
File name: imageYYMMDD_HHNNSS_XX.jpg
Y: Year, M: Month, D: Day
H: Hour, N: Minute, S: Second
X: Sequence Number
- **Add sequence number suffix (no maximum value)**
File name: imageXXXXXXXX.jpg
X: Sequence Number
- **Add sequence number suffix (limited value)**
File Name: imageXX.jpg
X: Sequence Number
The file name suffix will end at the number being set. For example, if the setting is up to “10”, the file name will start from 00 and end at 10, and then start all over again.
- **Overwrite** – The original image on the FTP site will be overwritten by the new uploaded file with a static filename.

Storage Management

Storage Management allows you to view information about an inserted Micro SD/SDHC card (up to 32GB), format the SD card, adjust cleanup settings, and download or delete files stored on the SD card.

Home System Streaming PTZ Logout

System

Security

Network

DDNS

Mail

FTP

HTTP

Application

Motion detection

Storage management

Recording

File location

View log file

View user information

View parameters

Factory default

Software version

Software upgrade

Storage Management

Device information

Device type: SD card

Free space: 0 KB Total size: 0 KB

Status: No Full: No

Device setting

Format device :

Disk cleanup setting

☐ Enable automatic disk cleanup

Remove recordings older than: 1 day(s)

Remove oldest recordings when disk is: 85 % full

Recording list

FileName	Size
----------	------

Device Information – When a compatible Micro SD/SDHC card is inserted into the camera, information about the card will be displayed in this section.

Device Setting – The Micro SD/SDHC card can be formatted using the **Format** button. A newly inserted card should always be formatted upon insertion before recording to it is configured.

Disk Cleanup Setting – An automatic cleanup can be configured so that once the available storage on the Micro SD/SDHC card reaches a percentage of use, older items will be removed. To enable Disk Cleanup:

1. Select **Enable automatic disk cleanup**.
2. Enter a percentage of use threshold needed to trigger the cleanup.
3. Enter a number of days or weeks as a deletion point
4. Data older than the specified number of days or weeks will be automatically deleted when the percentage of use threshold is triggered.

Recording List - Each file recorded to the Micro SD/SDHC card will be listed in the Recording List.

Note The maximum file is 60MB per file.

Note The letters A/M/R appear at the beginning of each file, denoting the type of recording. A for alarm; M for motion; and R for regular recording.

- To remove a file, select the file from the list and click **Remove**.
- Click **Sort** to sort the list.
- To download a file, select the file from the list and click **Download**.

Recording

The recording schedule allows you to set up scheduled recording to a local Micro SD/SDHC card.

The screenshot shows a web interface with a top navigation bar containing 'Home', 'System', 'Streaming', 'PTZ', and 'Logout'. On the left is a sidebar menu with items: System, Security, Network, DDNS, Mail, FTP, HTTP, Application, Motion detection, Storage management, Recording, File location, View log file, View user information, View parameters, Factory default, Software version, and Software upgrade. The 'Recording' menu item is highlighted. The main content area is titled 'Recording' and contains a 'Recording Schedule' section. This section has three radio button options: 'Disable' (selected), 'Always', and 'Only during time frame'. Below the 'Only during time frame' option are checkboxes for the days of the week: Sun, Mon, Tue, Wed, Thu, Fri, and Sat. There are also input fields for 'Start time' (set to 00:00) and 'Duration' (set to 00:00), followed by a 'Save' button.

Activating Micro SD/SDHC Card Recording

To set up continuous micro SD/SDHC card recording:

1. Select **Always** to continually record until the card is full.
2. To set the camera to overwrite old data, see the instructions for Disk Cleanup Setting earlier in this section.

To create a recording schedule:

1. Select **Only during time frame**.
2. Select the days of the week you want to record
3. Specify the **Start Time** and **Duration** of each recording.

To stop recording data to the micro SD/SDHC card, select **Disable**.

Snapshot

The CM-L812 camera supports JPEG snapshot function. You can specify a storage location for the snapshots. The default setting is: C:\.

Note If you are using Windows Vista or 7, you will need to change the Snapshot location. Windows UAC does not allow internet programs to write directly to C:\ for security reasons.

Note Make sure the selected file path contains valid characters such as letters and numbers.

The screenshot displays the camera's web management interface. At the top, there is a navigation bar with tabs for Home, System (which is active), Streaming, PTZ, and Logout. On the left side, a vertical menu lists various system settings: System, Security, Network, DDNS, Mail, FTP, HTTP, Application, Motion detection, Storage management, Recording, File location (which is highlighted), View log file, View user information, View parameters, Factory default, Software version, and Software upgrade. The main content area is titled 'File Location' and contains the instruction 'Set the destination of snapshot photos and recorded video files'. Below this, there is a text input field labeled 'All files stored at:' with the value 'C:\' entered. To the right of the input field is a 'Select' button. Below the input field is a 'Save' button.

Information

The **Information** page contains the System Log, User Information, and Parameter List.

System Log

Click **System Log** to view the system log file. The content of the file provides useful information about configuration and connections.

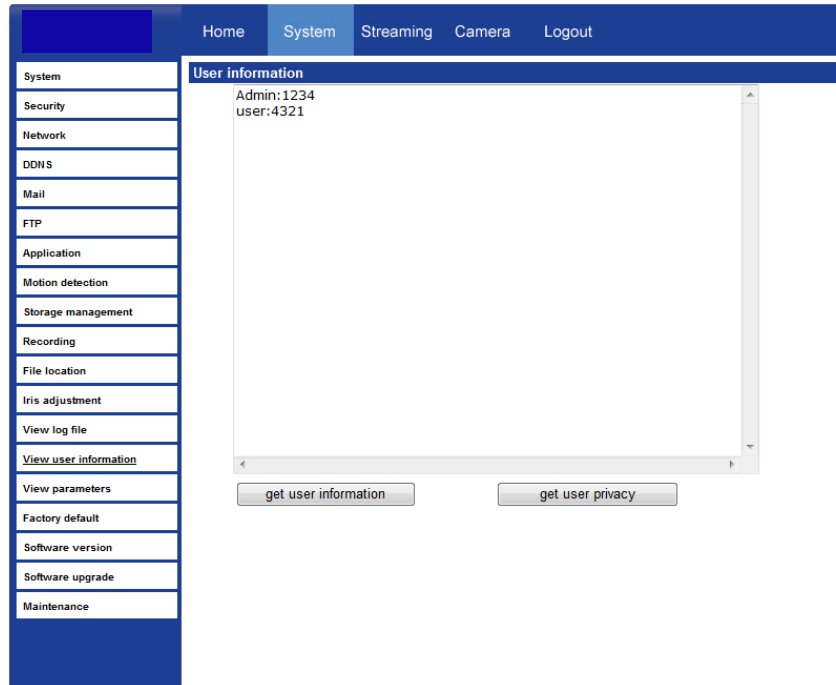
The screenshot displays a web interface with a top navigation bar containing links: Home, System, Streaming, Camera, and Logout. On the left, a sidebar menu lists various system categories: System, Security, Network, DDNS, Mail, FTP, HTTP, Application, Motion detection, Network failure detection, Tampering, Storage management, Recording, Snapshot, Iris adjustment, Information, Software version, and Maintenance. The main content area is titled 'System log' and shows a list of system events with timestamps and descriptions. The events include network interface initialization, host IP and subnet mask configuration, gateway and MAC address information, and a series of HTTP GET requests from an Admin user to various CGI scripts. At the bottom of the interface, there are three buttons: System Log, User Info, and Parameter List.

Timestamp	Event Description
[Wed Apr 18 21:30:00 2012]	--Network interface initialized start
[Wed Apr 18 21:30:01 2012]	--Network interface initialized end
[Wed Apr 18 21:30:01 2012]	--Host IP = 10.253.253.69
[Wed Apr 18 21:30:01 2012]	--Subnet Mask = 255.0.0.0
[Wed Apr 18 21:30:01 2012]	--Gateway = 10.0.0.1
[Wed Apr 18 21:30:01 2012]	--MAC address = 00:D0:89:09:28:71
[Tue Apr 24 00:12:17 2012]	--Admin@::ffff:10.1.1.105 GET / HTTP/1.1
[Tue Apr 24 00:12:18 2012]	--Admin@::ffff:10.1.1.105 GET /cgi-bin/setlogout
[Tue Apr 24 00:12:18 2012]	--Admin@::ffff:10.1.1.105 GET /cgi-bin/ret.cgi HT
[Tue Apr 24 00:12:18 2012]	--Admin@::ffff:10.1.1.105 GET /cgi-bin/top.cgi H
[Tue Apr 24 00:12:18 2012]	--Admin@::ffff:10.1.1.105 GET /cgi-bin/center.cg
[Tue Apr 24 00:12:21 2012]	--Admin@::ffff:10.1.1.105 GET /cgi-bin/showdata
[Tue Apr 24 00:12:35 2012]	--Admin@::ffff:10.1.1.105 GET /cgi-bin/audio.cgi
[Tue Apr 24 00:16:54 2012]	--Admin@::ffff:10.1.1.105 GET / HTTP/1.1
[Tue Apr 24 00:16:57 2012]	--Admin@::ffff:10.1.1.105 GET / HTTP/1.1
[Tue Apr 24 00:16:58 2012]	--Admin@::ffff:10.1.1.105 GET /cgi-bin/setlogout
[Tue Apr 24 00:16:58 2012]	--Admin@::ffff:10.1.1.105 GET /cgi-bin/ret.cgi HT
[Tue Apr 24 00:16:58 2012]	--Admin@::ffff:10.1.1.105 GET /cgi-bin/top.cgi H
[Tue Apr 24 00:16:58 2012]	--Admin@::ffff:10.1.1.105 GET /cgi-bin/center.cg
[Tue Apr 24 00:17:01 2012]	--Admin@::ffff:10.1.1.105 GET /cgi-bin/showdata
[Tue Apr 24 00:17:12 2012]	--Admin@::ffff:10.1.1.105 GET /cgi-bin/camset.c
[Tue Apr 24 16:31:02 2012]	--Admin@::ffff:10.253.253.49 GET /cgi-bin/admin
[Tue Apr 24 23:50:55 2012]	--Admin@::ffff:10.1.1.105 GET / HTTP/1.1

View User Information

The Administrator can view each user's login information and privileges on the **View User Information** page

All the users in the network are listed under **User information**. The example below shows that the Admin password is 1234.



View User Privilege

Select a user account from the list and click **get user privacy** to view the permissions for the user account.

Parameter List

Click **Parameter List** to view the system parameter settings.

The screenshot displays a web-based configuration interface. At the top, a navigation bar includes links for Home, System, Streaming, Camera, and Logout. On the left, a vertical sidebar lists various system categories: System, Security, Network, DDNS, Mail, FTP, HTTP, Application, Motion detection, Network failure detection, Tampering, Storage management, Recording, Snapshot, Iris adjustment, Information, Software version, and Maintenance. The 'System' category is currently selected, and the 'Parameter list' sub-section is active. The main content area shows the 'Mega Pixel Camera Initial Configuration File' with a list of camera settings, each followed by its current value in angle brackets. The settings include exposure mode, min shutter speed, fixed shutter speed, white balance mode, white balance rgain, white balance bgain, brightness value, sharpness value, and contrast value. At the bottom of the interface, there are three buttons: 'System Log', 'User Info', and 'Parameter List', with the latter being highlighted in blue.

Parameter	Value
exposure mode	<auto>
min shutter speed	<5>
fixed shutter speed	<56>
white balance mode	<auto>
white balance rgain	<57>
white balance bgain	<54>
brightness value	<128>
sharpness value	<3>
contrast value	<64>

Software Upgrade

Home System Streaming Camera Logout

System

Security

Network

DDNS

Mail

FTP

HTTP

Application

Motion detection

Network failure detection

Tampering

Storage management

Recording

Snapshot

Iris adjustment

Information

Software version

Maintenance

Version

The software version is pc20120406NSA

Follow these steps to update the camera firmware

Select the firmware update file

Browse...

Click Upgrade to begin the firmware update, the camera will restart during this process

Upgrade

Upgrading the Camera Viewer Software

Note Make sure the software upgrade file is available before starting the software upgrade.

1. Click **Browse** and find the upgrade file.

Note Do not change the file name, or the system will fail to find the file.

2. Select the file name from the list under **Step 2**.
3. Click **Upgrade**. The system will check to find the upgrade file, and then start to upload the upgrade file. The upgrade status bar will display on the page. When it reaches 100%, the viewer will return to Home page.
4. Close the internet browser.
5. Go to the **Windows Control Panel** and double-click **Add or Remove Programs**. Locate the **Camera Viewer** software on the **Currently installed programs** list and click **Remove** to uninstall the previous software version.
6. Open the internet browser again and log in to the CM-816. The system will automatically download the new version of the Camera Viewer software.

Maintenance

On the Maintenance page you can export the camera's current configuration, or import the configuration for a camera. Use the factory default page to reset the IP camera to factory default settings if necessary.

Note Do not import configuration files from different models of cameras.

The screenshot shows a web interface with a top navigation bar containing 'Home', 'System', 'Streaming', 'Camera', and 'Logout'. On the left is a sidebar menu with items: System, Security, Network, DDNS, Mail, FTP, HTTP, Application, Motion detection, Network failure detection, Tampering, Storage management, Recording, Snapshot, Iris adjustment, Information, Software version, and Maintenance. The 'Maintenance' page is active, displaying three sections: 'Factory default' with a 'Set Default' button, 'Reboot' with a 'Reboot' button, and 'Export Files' with an 'Export' button. Below these is an 'Upload Files' section with a text input, a 'Browse...' button, and an 'Upload' button.

Set Default –To reset the IP camera to the factory default settings, including the default IP address, click Set Default. The system will restart after 30 seconds. If you cannot access the camera menu, you can return the camera to the factory default settings by holding down the reset button on the camera connection board for 30 seconds. See **Error! Reference source not found.** for the button location.

Reboot – To restart the IP camera without changing the current camera settings, Click **Reboot**.

Export – You can save the system settings by exporting the configuration file (.bin) to a specified location for future use. Click **Export**, then **Save**, and specify the desired location.

Upload – To copy an existing configuration file to the IP camera, click **Browse**, select the desired configuration file, then click **Upload**.

Video and Audio Streaming Settings

On the Streaming tab, the Administrator can configure specific video resolution, video compression mode, video protocol, audio transmission mode, etc.

Video Format

Select the desired video resolution for the camera on the Video Format page. The recorder will record video based on the resolution selected here.

The screenshot shows a web interface for configuring video settings. At the top, there is a navigation bar with links: Home, System, Streaming (selected), Camera, and Logout. On the left side, there is a sidebar menu with options: Video Format (selected), Video Compression, Video OCX Protocol, Frame Rate Control, Video Mask, and Audio. The main content area is titled 'Video Format' and contains the following settings:

- Video Resolution :** A dropdown menu showing 'H.264 + MJPEG'. Below it, two rows show format details: 'H.264 format : 1920 x 1080 (15 fps)' and 'MJPEG format : 720 x 480 (30 fps)'. A 'BNC support : Yes' label is present, followed by a 'Save' button.
- Note :** A text block stating 'Image attachment by FTP or E-mail will be available only while MJPEG streaming is selected.'
- Text Overlay Settings :** Two checkboxes, 'Include date' and 'Include time', are shown. Below them is a label 'Include text string:' followed by a text input field and a 'Save' button.
- Video Rotation:** A dropdown menu showing 'Normal video', followed by a 'Save' button.
- GOP Settings :** Four input fields for GOP Length: 'H.264-1 GOP Length : 60', 'H.264-2 GOP Length : 60', 'H.264-3 GOP Length : 30', and 'H.264-4 GOP Length : 30'. A 'Save' button is located below these fields.
- H.264 Profile :** Four dropdown menus for profiles: 'H.264-1 : Main profile', 'H.264-2 : Main profile', 'H.264-3 : Main profile', and 'H.264-4 : Main profile'. A 'Save' button is located below these menus.

Video Resolution

The camera provides four codec options under video resolution (two single streaming options and two sets of dual streaming options):

- MJPEG only
- H.264 only
- MJPEG + H.264
- H.264 + H.264

Once a codec option is selected, multiple resolutions are available for each stream.

MJPEG Resolutions*	H.264 Resolutions*
1920x1080	1920x1080
	1920x1080 (@ 15 FPS)
1280x1024	1280x1024
1280x720	1280x720
1024x768	1024x768
800x600	800x600
720x480	720x480
640x480	640x480
352x240	352x240

*All resolutions are at 30 Frames Per Second (FPS) unless otherwise noted.

Note Due to resource management, some resolutions may be unavailable when selecting a dual stream option.

Note Due to resource management, the Motion Detection, 3DNR, and Privacy Mask functions are not available when using the **H.264 Only** codec option and selecting the **Low Latency** H.264 format.

Text Overlay Settings

Text Overlay allows you to select text to be display over the video. Three options are available: Date, Time, and a Custom String (up to 20 alphanumeric characters).

Video Rotate Type

You can change the orientation of the video output if necessary.

Normal Video – This is the default rotation designed for a normal setup with the camera mounted with the dome facing down.

Flip Video – This option will vertically flip the video image (without the intervention of another device this may cause the reversal of perceived left and right when viewing the image).

Mirror Video – This option will horizontally flip the video image (without the intervention of another device this may cause the reversal of perceived left and right when viewing the image).

90 Degree Clockwise – This option will rotate the video image 90 degrees to the right.

180 Degree Rotate – This option will rotate the video image 180 degrees (this is the option most commonly needed if the image appears upside-down when the camera is first installed).

90 Degree Counterclockwise – This option will rotate the video image 90 degrees to the left.

GOP Settings

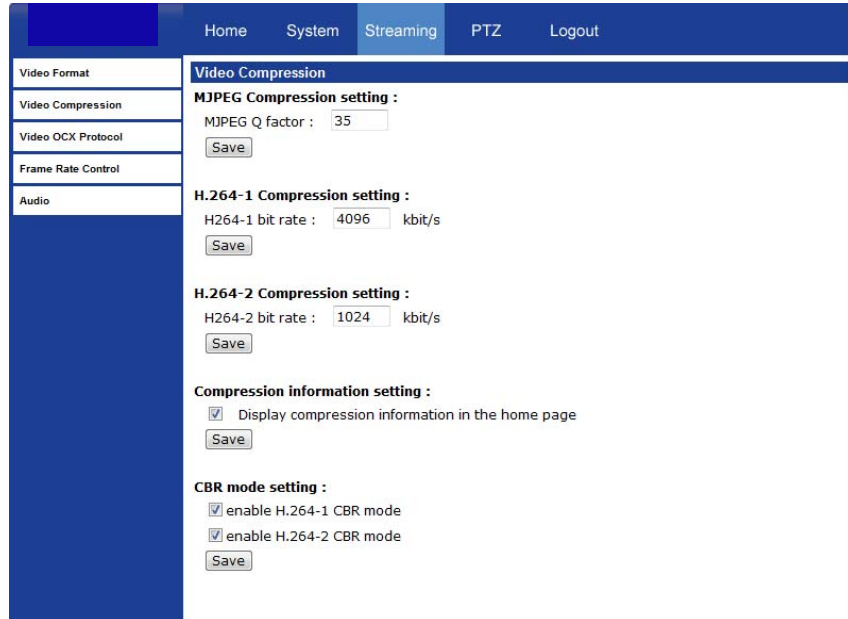
The Group of Pictures settings allow you to modify the frame structure of the video stream. This setting changes the frequency of the I-frames that occur within the stream of P-frames (2~64). Increasing this number increases the number of P-frames between each I-frame; decreasing the file size of the stream, but increasing the risk of video decoding errors. Decreasing this number decreases the number of P-Frames between each I-frame; increasing the file size of the stream, but decreasing the risk of video decoding errors.

H.264 Profile

The H.264 Profile may need to be changed if you are using a third party recorder that is not capable of decoding H.264 Main Profile video compression. Select the compatible compression type for each stream if necessary.

Video Compression

You can select an MJPEG/H.264 compression mode on the video compression page appropriate for your application. You can also select to display compression information on the Home page.



The screenshot shows a web interface with a top navigation bar containing 'Home', 'System', 'Streaming', 'PTZ', and 'Logout'. On the left is a sidebar menu with 'Video Format', 'Video Compression', 'Video OCX Protocol', 'Frame Rate Control', and 'Audio'. The 'Video Compression' page is active, displaying the following settings:

- Video Compression**
 - MJPEG Compression setting :**
 - MJPEG Q factor : 35
 -
 - H.264-1 Compression setting :**
 - H264-1 bit rate : 4096 kbit/s
 -
 - H.264-2 Compression setting :**
 - H264-2 bit rate : 1024 kbit/s
 -
 - Compression information setting :**
 - ☒ Display compression information in the home page
 -
 - CBR mode setting :**
 - ☒ enable H.264-1 CBR mode
 - ☒ enable H.264-2 CBR mode
 -

MJPEG Compression settings include:

- high compression, low bit rate, low quality
- middle compression, default
- low compression, high bit rate, high quality

H.264 Compression settings include:

- 1024kbps, highest compression, lowest quality
- 2048kbps
- 4096kbps, middle compression, default
- 6144kbps
- 8192kbps, low compression, highest quality

CBR Mode Setting

- The Constant Bit Rate mode allows you to lock in the bit rate of the H.264 stream. If this setting is not enabled bit rate may fluctuate based on available bandwidth.

Video OCX Protocol

On the Video OCX protocol page, you can select different protocols for streaming media over the network. In the case of multicast networking, you can select the Multicast mode.

The screenshot shows a web interface with a top navigation bar containing 'Home', 'System', 'Streaming', 'PTZ', and 'Logout'. On the left is a sidebar menu with 'Video Format', 'Video Compression', 'Video OCX Protocol', 'Frame Rate Control', and 'Audio'. The 'Video OCX Protocol' page is active, showing 'Video OCX protocol setting :'. It features five radio button options: 'RTP over UDP' (selected), 'RTP over RTSP(TCP)', 'RTSP over HTTP', 'MJPEG over HTTP', and 'Multicast mode'. Below these are input fields for 'Multicast IP Address' (0.0.0.0), 'Multicast H.264-1 Video Port' (0), 'Multicast H.264-2 Video Port' (0), 'Multicast MJPEG Video Port' (0), 'Multicast Audio Port' (0), and 'Multicast TTL' (1). A 'Save' button is at the bottom. A 'Note:' section states: 'This page only applies to video streams going to a DC Viewer.'

Video OCX protocol setting options include:

- RTP over UDP
- RTP over RTSP(TCP)
- RTSP over HTTP
- MJPEG over HTTP

Select a mode according to your data delivery requirements. If you are transmitting over the internet using a router and port forwarding, you need to use RTP over RTSP(TCP). You also need to forward the RTSP port to the camera (see the Network Setup page to find the RTSP port).

Multicast Mode

1. Enter all required data, including multicast IP address, H.264 video port, MJPEG video port, audio port and TTL into each box.
2. Click Save to confirm the setting.

Frame Rate Control

Setting the camera to transmit fewer frames can save bandwidth.

The screenshot shows a web interface for configuring a camera's frame rate. At the top, there is a navigation bar with links: Home, System, Streaming (highlighted), PTZ, and Logout. On the left side, there is a sidebar menu with options: Video Format, Video Compression, Video OCX Protocol, Frame Rate Control (highlighted), and Audio. The main content area is titled 'Frame Rate Control' and contains three sections for setting frame rates. The first section is 'MJPEG Frame Rate Setting:', which includes a text input field for 'MJPEG frame rate' set to '30' and a 'Save' button. The second section is 'H264-1 Frame Rate Setting:', which includes a text input field for 'H264-1 frame rate' set to '30' and a 'Save' button. The third section is 'H264-2 Frame Rate Setting:', which includes a text input field for 'H264-2 frame rate' set to '30' and a 'Save' button.

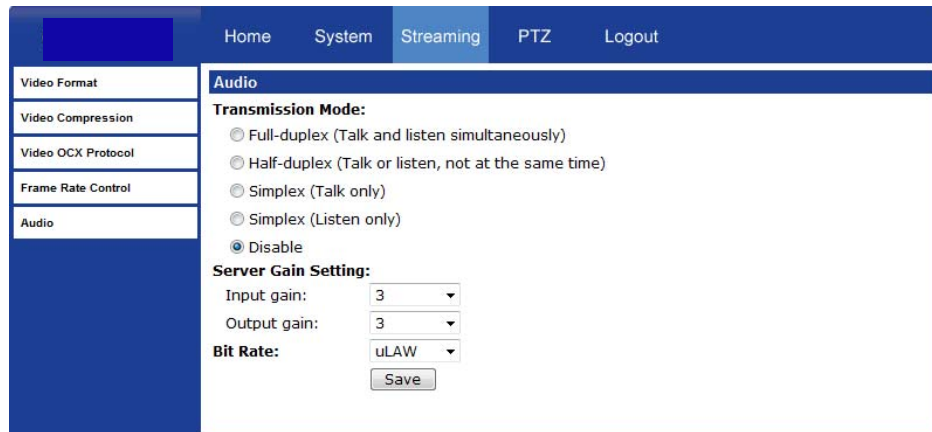
Each of the MJPEG and H.264 streams can have a separate frame rate setting from 1 to 30 frames per second.

Note Higher frame rate will increase video smoothness, as well as file size and bandwidth usage.

Note Lower frame rate will decrease video smoothness, as well as file size and bandwidth usage.

Audio

On the audio page, the Administrator can select an audio transmission mode and audio bit rate.



The screenshot shows a web interface with a top navigation bar containing 'Home', 'System', 'Streaming', 'PTZ', and 'Logout'. On the left is a sidebar menu with 'Video Format', 'Video Compression', 'Video OCX Protocol', 'Frame Rate Control', and 'Audio'. The 'Audio' page is active, showing the following settings:

- Transmission Mode:** Radio buttons for 'Full-duplex (Talk and listen simultaneously)', 'Half-duplex (Talk or listen, not at the same time)', 'Simplex (Talk only)', 'Simplex (Listen only)', and 'Disable' (which is selected).
- Server Gain Setting:** Two dropdown menus for 'Input gain' and 'Output gain', both set to '3'.
- Bit Rate:** A dropdown menu set to 'uLAW'.
- A 'Save' button at the bottom.

Note Audio monitoring and recording laws vary from location to location. It is highly recommended that you consult your local, state, and federal laws to verify that you are in compliance before implementing audio recording.

Transmission Mode

- **Full-duplex (Talk and Listen simultaneously)** – In Full-duplex mode, the local and remote sites can communicate with each other simultaneously, i.e. both sites can speak and be heard at the same time.
- **Half-duplex (Talk or Listen, not at the same time)** – In Half-duplex mode, the local/remote site can only talk or listen to the other site at a time.
- **Simplex (Talk only)** – In Talk only Simplex mode, the local/remote site can only talk to the other site
- **Simplex (Listen only)** – The local/remote site can only listen to the other site.
- **Disable** – Turn off the audio transmission function.

Server Gain Settings

Set the audio input/output gain levels for sound amplification. The audio gain values are adjustable from 1 to 6, and will be turned off if 'Mute' is selected.

Bit Rate

Selectable audio transmission bit rate include:

16 kbps (G.726)

40 kbps (G.726)

24 kbps (G.726)

uLAW (G.711)

32 kbps (G.726)

ALAW (G.711).

Both uLAW and ALAW signify 64 kbps but in different compression formats. Higher bit rate will provide higher audio quality and require more bandwidth.

PTZ SETTINGS

Use the PTZ tab to program Presets, Patterns, Auto Scans and Tours via PTZ controls. Additionally, various camera settings including Auto Exposure (AE), White Balance (WB), Back Light Compensation (BLC), Sharpness, Exposure Compensation, etc. also can be set here.

Preset

The screenshot displays the PTZ Settings interface. At the top, there is a navigation bar with tabs: Home, System, Streaming, PTZ (selected), and Logout. On the left side, there is a sidebar menu with options: Preset, Pattern, Auto Scan, Tour, Home, Tilt Range, Privacy Mask, Camera - Exposure, Camera - WB, Camera - Misc1, Camera - Misc2, and Camera - Default. The main content area is titled 'Preset Point'. It contains a 'Preset setting' section with 'PrePage' and 'NextPage' buttons, a 'Num(1~10):' dropdown menu set to '1', a 'Name:' text input field, and 'Set' and 'Delete' buttons. Below this is a 'Preset go' section with a 'Presetlist' dropdown menu. To the right of these settings is a large empty rectangular box representing the live view pane. At the bottom right, there are PTZ controls: 'Zoom' with 'Wide', 'Tele', and a slider; and 'Focus' with 'Auto', 'Manual', 'Near', and 'Far' buttons.

Note Up to 256 Presets can be programmed for the camera.

Preset Setting

To create a Preset Point:

1. Move the pointer to the live view pane.
2. Drag the red pointer with PTZ controls to a desired position.
3. Assign a number for the current position from the **Number** List (1~10) and type a descriptive **Name**.
4. Click **Set** to save the settings.

Preset Go

To move the camera view to a specified Preset position:

- Select the Preset Point from the list under **Preset Go**. The camera will move to the target position.

Pattern

The screenshot displays a web-based PTZ control interface. At the top, a navigation bar includes links for Home, System, Streaming, PTZ (which is the active tab), and Logout. On the left side, there is a vertical menu with options: Preset, Pattern, Auto Scan, Tour, Home, Tilt Range, Privacy Mask, Camera - Exposure, Camera - WB, Camera - Misc1, Camera - Misc2, and Camera - Default. The main content area is titled 'Pattern Line' and is divided into two sections: 'Pattern setting' and 'Pattern run'. In the 'Pattern setting' section, there is a 'Pattern path' dropdown menu set to '1', and two 'Record start' and 'Record end' buttons, each with a 'Set' button next to it. In the 'Pattern run' section, there is a 'Pattern path' dropdown menu set to '1' and a 'Run' button. To the right of these settings is a large rectangular live view pane. Below the live view pane, there are two rows of PTZ controls: 'Zoom' with buttons for 'Wide', 'Tele', and a slider; and 'Focus' with buttons for 'Auto', 'Manual', 'Near', and 'Far'.

Note The camera supports up to eight patterns.

Pattern Setting

To create a Pattern:

1. Select a path number from the **Pattern Path** list.
2. Move the pointer to the live view pane, and move the camera to a desired view using the PTZ controls for the start point of a Pattern.
3. Click **Set** next to **Record Start** and start programming the Pattern via the PTZ controls.
4. When you have finished the pattern, click **Set** next to **Record End**. The Pattern will be automatically recorded.

Pattern Run

Select the specified Pattern from the Pattern Path list and click **Run**.

To view the camera in full screen mode, move the pointer onto the live view pane, right-click and select **Fullscreen**.

To stop running a Pattern, move the cursor to the live view pane and use the PTZ controls to move the camera in any direction.

Auto Scan

The screenshot displays the PTZ (Pan/Tilt/Zoom) control interface. At the top, a navigation bar includes links for Home, System, Streaming, PTZ (which is the active tab), and Logout. On the left side, there is a vertical menu with options: Preset, Pattern, Auto Scan, Tour, Home, Tilt Range, Privacy Mask, Camera - Exposure, Camera - WB, Camera - Misc1, Camera - Misc2, and Camera - Default. The main content area is titled 'Auto Scan' and is divided into two sections: 'Auto Scan setting' and 'Auto Scan run'. The 'Auto Scan setting' section includes fields for 'Auto Scan path' (set to 1), 'Speed' (set to 0), 'Direction' (set to Left), 'Start point' (with a 'Set' button), and 'End point' (with a 'Set' button). The 'Auto Scan run' section includes 'Auto Scan path' (set to 1) and a 'Run' button. To the right of these settings is a large, empty rectangular area representing the live video feed. Below the live view area, there are PTZ controls: a 'Zoom' section with buttons for 'Wide', 'Tele', and a slider; and a 'Focus' section with buttons for 'Auto', 'Manual', 'Near', and 'Far'.

Note The camera supports four Auto Scan paths.

Auto Scan Setting

To create an Auto Scan path:

1. Select a path number from the **Auto Scan Path** list.
2. Move the pointer to the live view pane, and move the camera to a desired view as the Start Point of an Auto Scan Path.
3. Click the “Set” button of the “Start Point”, and the current view will be automatically saved as the start point of the Auto Scan Path.

Note The room ratio of an Auto Scan’s Start Point will persist throughout the whole path.

4. Enter the speed ratio in the **Speed** box; the speed ratio ranges from 0 (low) to 3 (fast).
5. Select the **Direction** of the Auto Scan Path, (Left or Right).
6. Move the camera to the desired end point position and click **Set** next to **End Point**.

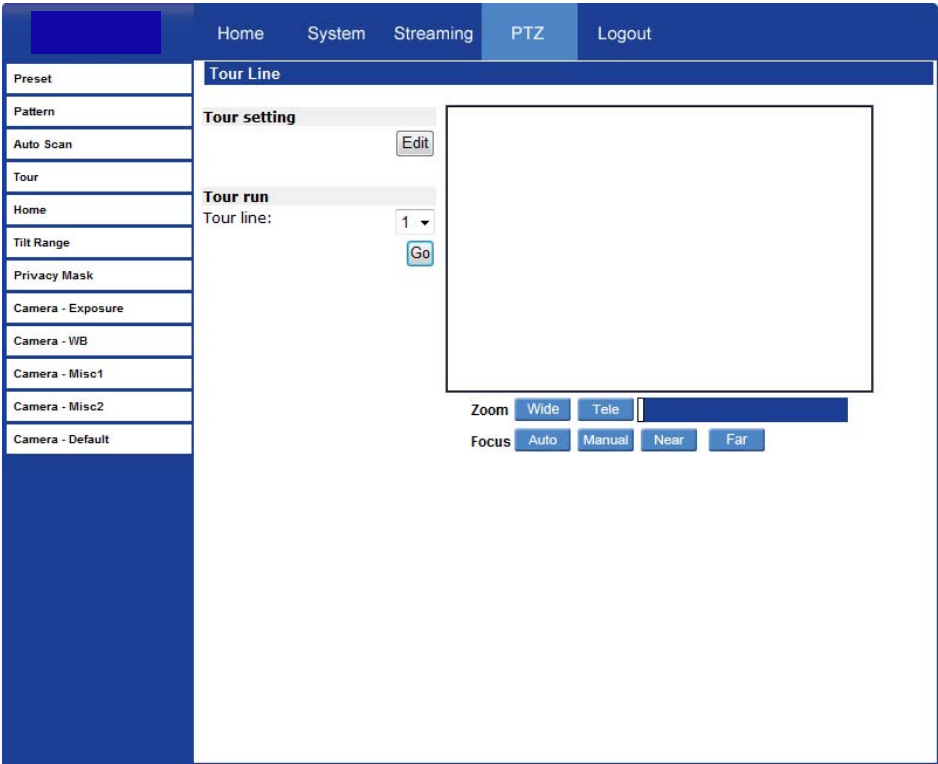
Auto Scan Run

Select the specified path from the list under **Auto Scan Run** and click **Run**.

To view the camera in full screen mode, move the cursor onto the live view pane, right-click and select **Fullscreen**.

To stop running an Auto Scan Path, move the cursor to the live view pane and use the PTZ controls to move the camera in any direction.

Tour



The camera supports up to eight Tours; each Tour supports up to 64 Presets.

Note Before setting this function, you must pre-define at least two Presets.

Tour Set

Preset	Name	Dwell time	Speed
1.	3(office)	10	14
2.	1(door)	30	7
3.	3(office)	10	14
4.	2(door2)	30	7
5.	--no setting--		
6.	--no setting--		
7.	--no setting--		
8.	--no setting--		
9.	--no setting--		
10.	--no setting--		
11.	--no setting--		
12.	--no setting--		
13.	--no setting--		
14.	--no setting--		
15.	--no setting--		

1. On the **Tour** screen, click **Edit** to open the Tour Set options.
2. Select the number of the new tour from the **Tour Line** list at the top of the screen.
3. Select each Preset to add to the tour.
4. Enter the Dwell Time (0~127 seconds) and Speed (0~14) for each Preset.
5. Click **Save** when finished.

Tour Run

Select the desired tour from the list under **Tour Run** and click **Go**.

To view the camera in full screen mode, move the cursor onto the live view pane, right-click and select **Fullscreen**. To stop running the Tour, move the cursor to the live view pane and use the PTZ controls to move the camera in any direction.

Home

Preset

Pattern

Auto Scan

Tour

Home

Tilt Range

Privacy Mask

Camera - Exposure

Camera - WB

Camera - Misc1

Camera - Misc2

Camera - Default

Home Function

Home setting

Switch: Off

Set

Time: 1 [1..128Min]

Type: Preset

Line: 1(door)

Set

Zoom

Wide

Tele

Focus

Auto

Manual

Near

Far

Set up the Home function to ensure constant monitoring. If the camera idles for a period of time, the selected function will be activated automatically and return the camera to the home function setting. The Home function allows constant and accurate monitoring to prevent the camera from idling or missing events.

Home Settings

Activate/Disable Home Function

Select ON/OFF to activate or disable the Home function and click **Set** to save.

Time

Specify the desired idle time (1~128 minutes) in the Time box. The **Time** represents the duration of time the camera can idle before performing the home function. When the Home function is activated, the camera will start to count down when it idles, and then execute the predefined action when time expires.

Action Type

Select an action **Type** (Preset, Pattern, Auto Scan, or Tour) and then specify the desired action type number from the **Line** list. Click **Set** to save your settings.

Tilt Range

The screenshot displays a web-based PTZ control interface. At the top, a navigation bar includes links for Home, System, Streaming, PTZ (which is the active tab), and Logout. On the left side, a vertical menu lists various camera settings: Preset, Pattern, Auto Scan, Tour, Home, Tilt Range (the selected option), Privacy Mask, Camera - Exposure, Camera - WB, Camera - Misc1, Camera - Misc2, and Camera - Default. The main content area is titled 'Tilt Angle' and contains an 'Angle Setting' section. This section has two input fields: 'Min:' with the value '0' and a range indicator '[-10..10]', and 'Max:' with the value '90' and a range indicator '[170..190]'. A 'Set' button is positioned to the right of these fields. Below the input fields is a large, empty rectangular box, likely a video feed placeholder. At the bottom of the interface, there are controls for 'Zoom' (with buttons for 'Wide' and 'Tele') and 'Focus' (with buttons for 'Auto', 'Manual', 'Near', and 'Far').

The camera's Tilt Range is adjustable. The minimum tilt angle can be set between -10° and 10° . The maximum tilt angle can be set between 170° and 190° .

- Enter the desired min. and max. tilt angle into the corresponding fields respectively and click **Set** to save the tilt angle settings.

Privacy Mask Settings

Home

System

Streaming

PTZ

Logout

Presets

Pattern

Auto Scan

Tour

Home

Tilt Range

Privacy Mask

Camera - Exposure

Camera - WB

Camera - Misc1

Camera - Misc2

Camera - Default

Privacy Mask

Mask setting

Switch: Off

Set

Transparency: On

Color: Black

Set

Mask(1~16):

Hsize(1~80):

Vsize(1~60):

Add

Mask clearing

Mask: --no setting--

Clear

Zoom

Wide

Tele

Focus

Auto

Manual

Near

Far

The Privacy Mask function helps avoid any intrusive monitoring. When you create a mask, Toshiba recommends that you set it at least twice as big (height and width) as the masked object. The camera will assume the center of the selected view as a starting point. Therefore, keep the target object/region nearly positioned in the center of the scene.

Note The Image Flip function (*PTZ > Camera – Misc1*) will be disabled automatically when the Privacy Mask function is enabled.

Mask Setting

Activate/Disable Privacy Mask Function

Set to On/Off to activate or disable the Privacy Mask function and click **Set**.

Activate/Disable Transparency Mask

Set the transparency of the Privacy Mask if necessary.

Color Setting

Select the desired color from the **Color** list for the specified Privacy Mask and click **Set**.

Mask Number

Specify the number of the programmed Privacy Mask in the corresponding field.

Mask Size

Specify the horizontal (Hsize: 1~80) and vertical (Vsize: 1~60) size of the Privacy Mask.

Click **Add** to save the programmed Privacy Mask.

Mask Clearing

To delete an existing Privacy Mask select the Privacy Mask to be removed from the **Mask** list under **Mask Clearing** and click **Clear**.

Camera — Exposure

The screenshot shows the 'Exposure' configuration page. The top navigation bar includes 'Home', 'System', 'Streaming', 'PTZ', and 'Logout'. The left sidebar lists various camera settings, with 'Camera - Exposure' currently selected. The main content area is titled 'Exposure' and features the 'Exposure mode' section. Three modes are available: 'Full auto' (selected), 'Shutter priority', and 'Manual'. In 'Shutter priority' mode, users can adjust the 'Shutter' speed (currently 1/60) and 'Gain' (currently 6) using dropdown menus, and a 'Set' button is provided. To the right of these settings is a large video preview window. Below the preview, there are 'Zoom' controls with 'Wide' and 'Tele' buttons, and 'Focus' controls with 'Auto', 'Manual', 'Near', and 'Far' buttons.

On the Exposure screen you can select **Full Auto** mode or adjust the parameters manually for optimized video output in accordance with the operating environment.

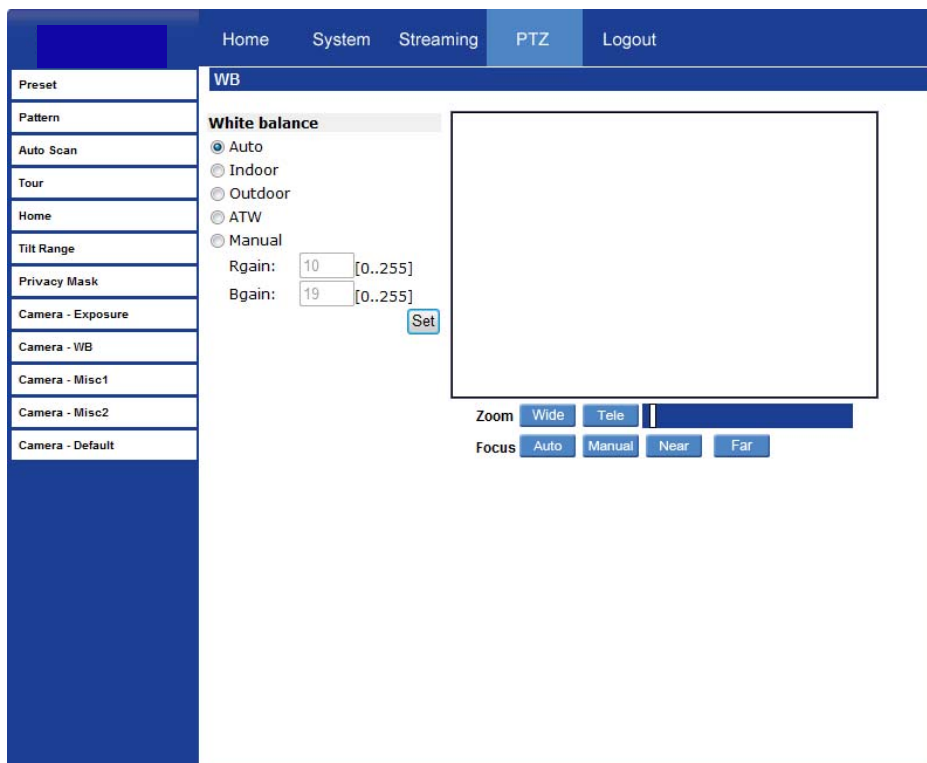
Shutter Priority

When **Shutter Priority** is selected the shutter speed takes control of exposure. Shutter speed range is 1/60 ~ 1/10000.

Manual Mode

Select **Manual** mode to adjust the **Shutter** speed and **Gain** manually. When manual is selected the Shutter speed range is 1 ~ 1/10000; and Gain range is 1 ~ 15.

Camera — White Balance



A camera uses a reference color temperature, which is a way of measuring the quality of a light source, to calculate all the other colors. The unit for measuring this ratio is degrees Kelvin (K). You can select the White Balance Control according to the operating environment. The following table shows the color temperature of some light sources for reference.

Light Sources	Color Temperature in K
Cloudy Sky	6,000 to 8,000
Noon Sun and Clear Sky	6,500
Household Lighting	2,500 to 3,000
75-watt Bulb	2,820
Candle Flame	1,200 to 1,500

Auto Mode

In Auto mode, white balance works within its color temperature range and calculates the best-fit white balance.

Indoor/outdoor Mode

Select for indoor or outdoor mode.

ATW Mode (Auto Tracing White Balance)

The Dome Camera takes out the signals in a screen in the range from 2000 K to 10000 K.

Manual Mode

In Manual mode, you can change the White Balance value manually by specifying the R gain and B gain; the R/B gain range is from 0 to 255.

Camera — Misc1

The screenshot shows the 'Camera — Misc1' configuration page. The top navigation bar includes 'Home', 'System', 'Streaming', 'PTZ', and 'Logout'. The left sidebar lists various camera settings: Preset, Pattern, Auto Scan, Tour, Home, Tilt Range, Privacy Mask, Camera - Exposure, Camera - WB, Camera - Misc1, Camera - Misc2, and Camera - Default. The main content area is titled 'Misc' and contains the following settings:

- BLC**: Off (dropdown), Set button
- Sharpness**: 3 (dropdown), (Default is 3), Set button
- ExpComp**: 8 (dropdown), (Default is 8), Set button
- Flip**: Off (dropdown), Set button
- Speed by zoom**: Off (dropdown), Set button
- ICR function**: Auto (dropdown), Set button

At the bottom right, there are buttons for **Zoom** (Wide, Tele) and **Focus** (Auto, Manual, Near, Far).

In Camera—Misc1, you can set various camera parameters including Backlight Compensation, Sharpness, Exposures Compensation, Image Freeze, Image Flip, Digital Zoom, Speed by Zoom and ICR Function.

- **BLC** – Activate or disable the Backlight Compensation function (On/Off).
- **Sharpness** – Increasing the sharpness level (1~15) can make the image looked sharper; especially enhancing the object's edge.
- **ExpComp** – Define the value of Exposure Compensation (1~15).
- **Freeze** – Freeze function allows you to hold the image while the camera is moving between preset positions such as in Preset mode and Tour mode (On/Off).

- **Flip** – Track an object continuously when it passes under the camera by setting Flip to Mechanical (M.E.) mode or Digital Flip (Image) mode.
- **M.E. Mode** – M.E. is a standard mechanical operation. As the camera tilts to the maximum angle, it will pan 180°, and then continue tilting to keep tracking objects.
- **Image Mode** – Image represents digital IMAGE FLIP, which enables the camera to keep tracking objects seamlessly. With the Image mode, almost no delay occurs in comparison to the M.E. mode.

Note Flip setting is manual-controlled only. If a Preset Position or a point for other function (ex. Tour) is set in the position that can only be reached through FLIP motion, the Flip function must be enabled for the camera to move to that position.

Note To make the Dome Camera tilt between a specific range, such as -10° or +190°, please go to the **Tilt Range** setting page to set the tilt angle range. Otherwise, the Dome Camera will tilt 90° as the default setting.

Note The Privacy Mask function will be automatically disabled if the Image Flip function is enabled.

- **Speed by Zoom** – Enable this function to have the pan and tilt speed (angle distance) automatically scaled down when the camera is zoomed in. Enabling this function will cause pan and tilt movements to be done in smaller increments the further in the camera is zoomed, making movement while zoomed much easier.
- **ICR Function** – The camera uses the IR cut filter to capture a clear image at night time or in low light conditions. In the Auto mode, the internal circuit will automatically decide when to remove the IR cut filter according to the image brightness level.

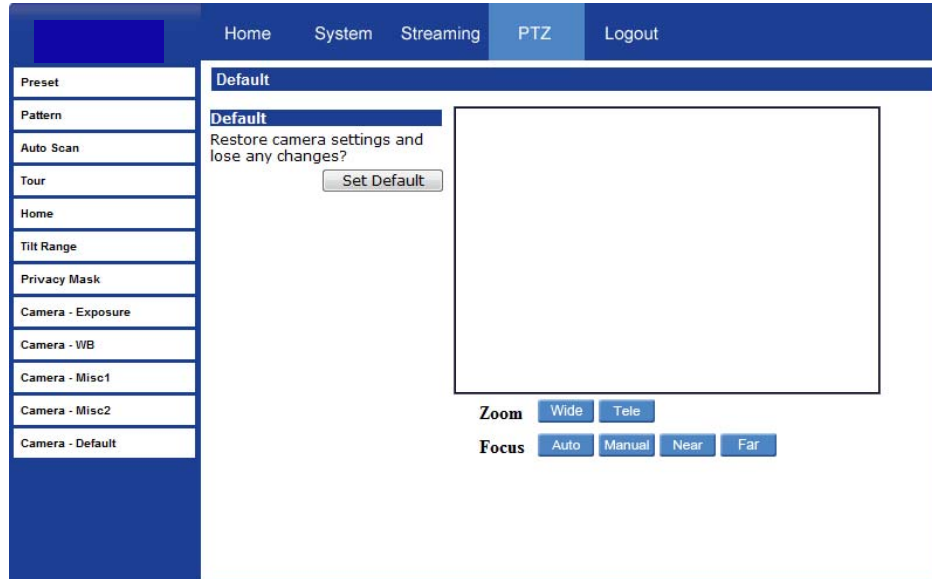
Camera — Misc2

In Camera—Misc2, you can set up various functions such Auto Calibration, Wide Dynamic Range, 2D Noise Reduction and TV System.

- **WDR** – Wide Dynamic Range is especially effective in an environment with extreme contrast.
- **Auto Calibration** – Auto Calibration function automatically calibrates the camera when the deviation of dome pivot is detected.
- **2DNR** – 2D Noise Reduction function analyzes pixel by pixel and frame by frame to eliminate environmental noise signal so that the highest quality image can be produced even in low light conditions.

Camera — Default

Click **Set Default** to reset the camera back to factory default settings.



The screenshot shows a web interface with a top navigation bar containing 'Home', 'System', 'Streaming', 'PTZ', and 'Logout'. The 'PTZ' tab is selected. On the left is a sidebar menu with options: Preset, Pattern, Auto Scan, Tour, Home, Tilt Range, Privacy Mask, Camera - Exposure, Camera - WB, Camera - Misc1, Camera - Misc2, and Camera - Default. The main content area is titled 'Default' and contains the text 'Restore camera settings and lose any changes?' with a 'Set Default' button below it. To the right of this text is a large empty rectangular box. At the bottom of the main area, there are controls for 'Zoom' (Wide, Tele) and 'Focus' (Auto, Manual, Near, Far).

LOGOUT

Click the Logout tab to open the login window and log in with a different user name and password.



The screenshot shows a login dialog box titled 'MegapixelIPCamera'. It features a key icon in the top left corner. The dialog contains a 'User name:' label with a dropdown menu showing a user icon, a 'Password:' label with a text input field, and a checkbox labeled 'Remember my password'. At the bottom are 'OK' and 'Cancel' buttons.

SPECIFICATIONS

CAMERA SPECIFICATIONS

Model	IKS-WP806
Image Sensor	1/2.8" Sony Progressive CMOS
Type / Format	H.264 / MJPEG
Wide Dynamic Range	Digital WDR
Minimum Illumination	0.1 Lux (Color) / 0.03 Lux (B&W) (@ 50IRE) 0.05 Lux (Color) / 0.01 Lux (B&W) (@ 30IRE)
Day / Night	Yes (True Day / Night)
Resolution	2MP (1920 x 1080), 1.3MP (1280 x 1024), 1MP (1280 x 720), 1024 x 768, 800 x 600, 720 x 480, 640 x 480, 352 x 240
Focal Length	4.7 ~ 84.6 mm
Iris Control	Auto / Manual
White Balance	Auto / Indoor / Outdoor / ATW / Manual
Auto White Balance Range	Auto: 2700 K – 8000 K ATW: 2450 K ~ 10500 K
Backlight Compensation	On / Off
Auto Gain Control	Auto / Manual
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Heater	No
Power Consumption	20W (Max)
Rated Amperage	0.83A
Input Voltage	24vAC / PoE+
Weight	5.11 lbs (2.32 kg)
Dimensions	Dome: Ø5.875" (150 mm) x H: 8.625" (219 mm)
Housing / Dome Cover	White / Clear

PTZ SPECIFICATIONS

Optical Zoom	18x
Pan/Tilt Range	360° Endless / -10° ~ 190°
Presets	256
Preset Accuracy	± 0.225°
Preset Speed	5° ~ 400°/sec.
Pattern	8
Tour (Group)	8
Auto Scan	4
Privacy Mask	16
Home Function	Preset, Pattern, Tour, Autoscan
Auto Flip	Image / Mechanical / Off
Digital Slow Shutter	On / Off
Focus Mode	Auto / Manual
Control	All PTZ functions available through web UI, no OSD
Built-in Protocol	PTZ control via network only

IP SPECIFICATIONS

Dual Streaming	H.264 (Main) + MJPEG / H.264 + H.264
Audio In	1
Audio Out	1
Alarm Inputs	4
Relay Outputs	2
User Accounts	20

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