TOSHIBA

NETWORK CAMERA

Model: IK-WBO1A IK-WB11A

Advanced User's Guide



For information on the latest products and peripheral devices, refer to the following Web page.

http://www.toshiba.com/taisisd

The above URL is subject to change without prior notice. If the URL changes, refer to the Toshiba website

(http://www.toshiba.com/taisisd).

This User's Guide applies to the firmware version 2 * * - 2 * * - 1 * * and the later versions.

Product Name : NETWORK CAMERA Model Number(s) : IK-WB01A, IK-WB11A



FCC Notice "Declaration of Conformity Information"

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Warning : Changes or modifications made to this equipment, not expressly approved by Toshiba or parties authorized by Toshiba could void the user's authority to operate the equipment.

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.

Toshiba America Information System, Inc. Imaging Systems Division 9740 Irvine Boulevard, Irvine, California 92618-1697 (800)288-1354

Industry Canada This Class B digital apparatus complies with Canadian ICES-003.

o^{co} Introduction

Thank you for purchasing the IK-WB01A/IK-WB11A Network Camera. Before you start using the camera, read this User's Guide carefully to ensure correct usage. Once you have finished reading this User's Guide, keep it in a convenient place for future reference. The design, specifications, software, and User's Guide contents are subject to change without prior notice.

IK-WB01A is designed for indoor-use only. You may use IK-WB11A either inside or outside.

Terms and Trademarks

- The term "OS" is used in this manual to indicate operating systems compatible with this product.
 - Windows 98SE: Microsoft® Windows® 98 operating system; Second Edition
 - Windows 2000: Microsoft® Windows® 2000 operating system
 - Windows XP: Microsoft® Windows® XP operating system
- The formal name of Windows[®] is Microsoft[®] Windows[®] Operating System.
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and Operation

o^{oo} Introduction (Cont.)

Accessories

Confirm that all of the following accessories have been supplied with the network camera.

Accessories common to IK-WB01A and IK-WB11A





● Accessories for IK-WB01A



● Accessories for IK-WB11A







- Self-tapping screw (x1) (Black)
- Wood screws (x4) (Silver)
 AN cable (Stroight
- LAN cable (Straightthrough cable)(x1) Wire clamp (x1)

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Viewing • Listening and Operation

When using this camera, always follow basic safety precautions to reduce the risk of fire, electric shock, or personal injury.

- 1. Read and understand all the instructions.
- 2. Keep the User's Guide for future reference.
- **3**. Heed all warnings.
- 4. Follow all the instructions.
- 5. Wipe off any dust on the camera lens with a lens-cleaning cloth.
- 6. Do not place the camera near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.
- 7. Protect the power cord from being stepped on or pinched particularly at plugs. convenience outlet, and the point where they exit from the unit.
- 8. Use only specified attachments/accessories such as stands, tripods, and brackets.
- **9**. Do not touch the camera or the AC adaptor during lightning storms.
- 10. Unplug the power cord when you do not use the camera for a long period of time.
- Refer all the services to qualified service personnel. Repairing is required when the camera has been damaged in any way, such as :if power cord or plug is damaged; the camera does not operate normally, the camera has fallen to the ground.

Set up

Precautions for Use

About the SD Memory Card(IK-WB11A only)

- There is a limit to the number of rewrites that is possible with the SD memory card. Replacing of the SD memory card when performing periodic maintenance of the camera is recommended.
- The camera supports the following SD memory cards. Do not use memory cards with other specifications.

SD memory card: 8, 16, 32, 64, 128, 256, and 512 MB SD memory cards (3.3 V) supported.

- Physical interface: Part 1. Physical Layer Specification; Version 1.01
 Images may not be recorded or read correctly if an unsupported SD memory card is used with the camera.
- Carefully read the User's guide, precautions on use, and any other information supplied with a purchased memory card.
- An SD memory card can be used for the loop recording of images. The lifespan (number of rewrites possible) of an SD memory card is greatly affected by the capacity of the SD memory card. The use of a 128, 256, or 512 MB large-capacity SD memory card is recommended for loop recording.
- To achieve maximum performance of the camera, the use of a Toshiba SD memory card is recommended. If a card of another company is used, the recording intervals may lengthen and the erasure time during overwriting may increase. As a result, the number of delivered frames of live video may decrease.
- Do not use a memory card containing the data recorded by another device with the camera as this may result in the camera not functioning correctly.
- Do not modify, overwrite the data, or change the folder name of an SD memory card. It may result in the camera not to function correctly.
- Data recorded with the camera do not comply with the image file format Exif and the DCF standard. If the SD memory card is to be removed to play images, use a personal computer to play the images. Other devices may not be capable of displaying the images.

Caution for wireless mode

During wireless mode operation, try to leave minimum of 20cm (8 inches) spacing between people and the equipment.

iewing • Listening and Operation

About the AC adaptor

Be sure to use only the supplied AC adaptor. Using a different AC adaptor may cause the camera to malfunction, heat up, or catch fire. Before using the AC adaptor, carefully read and observe the IMPORTANT SAFETY INSTRUCTIONS (\rightarrow page 7) and the notes below.

- Do not allow the connectors on the AC adaptor to come into contact with any other metal object as this may result in short circuit.
- To connect the AC adaptor, firmly insert the plug on the end of the cable into the AC adaptor jack. Do not insert the plug into other jacks as this may cause a malfunction.
- When removing the connection cable, disconnect the cable by holding its plug. Do not disconnect the cable by pulling on the cable.
- Do not drop the AC adaptor or subject it to strong impact.
- Do not use the AC adaptor in hot and humid places.
- Do not use the supplied AC adaptor with devices other than this camera.
- Temperature increasing on the surface of the adaptor is normal. Before moving the adaptor to another location, unplug it from the wall outlet, and wait until its temperature decreases.
- Buzzing noises may come from inside. This does not indicate malfunction.
- Using the AC adaptor near a radio, TV, or cellphone may cause interference. Use the adaptor at sufficient distances from these devices.

Specifications

AC adaptor (AC-WB10)

Power supply	:	100 to 240 V AC, 0.5 A, 50/60 Hz
Rated output	:	10 V DC, 1.5 A
Operating temperature	:	-20°C to +50°C (-4°F to +122°F)
Storage temperature	:	-20℃ to +65℃
External dimensions	:	50 x 32 x 85 mm (W / H / L)
Length of the cord	:	10 m

Recording

Viewing • Listening and Operation

- Camera Administrator and User
- Viewing and Listening (Administrator)
- Operation of Live Camera Images by Administrator
- Using Playback Function
- Presetting of Camera Angle by Administrator
- Playing Recorded Alarm Images by Administrator
- Playing Recorded Normal Images by Administrator (IK-WB11A)
- Viewing and Listening (Users)

°° Camera Administrator and User

This User's Guide explains use of the camera from the standpoints of the administrator and the user. This distinction is difficult to make, because normally the owner of a network camera is an administrator and a user. Therefore, the following will explain the use of the camera from both standpoints.

The network camera serves five main functions.

- (1) Viewing camera images
- (2) Listening to sound from the camera
- (3) Operating the camera
- (4) Recording Images from the camera
- (5) Configuring the camera

Whether each function is made available for the administrator and the user is determined for both standpoints from consideration of "what will be done" with the network camera. "Administrator" indicates the standpoint where all the functions of the camera can be used and "user" indicates the standpoint where functions such as the configuring of camera parameters are restricted. The camera differentiates between the administrator and the user via authentication at login.

Function		Administrator	User
	Live images	0	0
viewing intages	Recorded images	0	×
Listening to sound		0	0
Operation	PAN (left/right)/TILT (up/down) operation	0	0*
Operation	Image playback, presets, starting scan/patrol, etc.	0	×
Recording	Recording on the camera	0	×
	Recording on the FTP server	0	×
Configuration		0	×

The following shows the different functions that are available for the administrator and the user.

*User's PAN/TILT operation could be restricted by an administrator.

Introduction

Recording

Viewing and Listening (Administrator)

The viewing of images, listening sound and operating cameras are not restricted to the administrator. The administrator can use all the functions. However, it is necessary for the administrator to log in through the "Administrator Login" screen, because an administrator who logs in from the "User Login" screen is subject to the same restrictions as users.

How to view images, listen sound and operate cameras are explained after the following administrator login procedure.

※Install "JAVA[™]2" to display images and output sound correctly on an administrator's personal computer.(→ Basic User's Guide page 12)

Administrator Login

You must enter the administrator's login ID and password first so that you can be verified as an administrator on the network camera.

1 With the Internet browser displayed on the administrator's personal computer, enter the following URL and press ENTER

http://192.168.0.30/admin.htm (When IP address is in default setting)

If you enter this URL, the "Administrator Login" screen appears.

TUSHIBA Ne Eile Edit ⊻ie	e twork Camera - A w F <u>a</u> vorites <u>T</u> o	idministrato ols <u>H</u> elp	r Login - Microsoft Internet Explorer	
TOSHIBA I	Network Came	ra		<u> </u>
				_
	'nwcam01'	Adminis	trator Login	
		login 🛛		
	pas	sword 🛛		
			login	
				7



Ø `TOSHIBA Network Camera - Administr Eile Edit ⊻iew F <u>a</u> vorites Iools <u>H</u> elj	ator Login - Microsoft Internet Explorer 📃 🖪 🗙
TOSHIBA Network Camera	<u> </u>
'nwcam01' Admir	nistrator Login
login	root
password	AUGU
	login

Others

Set up

Viewing and Listening (Administrator) (Cont.)

Important

- At the time of purchase, the login ID is "root." and the password is "ikwb." For security reasons, change the login ID and password settings immediately (→ Basic User's Guide page 39).
- For the security reasons, if you leave the Admin Menu screen for more than 5 minutes without taking any actions, it automatically logs you out. If you were logged out, try login procedure to log in again.

Viewing Images by Administrator

Viewing Images in Single-View Mode by Administrator

If the Administrator Login was performed correctly, a window containing the Admin Menu appears.

Click the LIVE] button	
TOSHIBA Network Camera - Settings for <u>File</u> Edit <u>View</u> Favorites <u>Tools</u> <u>Help</u>	r Administrator - Microsoft Internet Explorer	
TOSHIBA Network Camera		
w nwcam01		
Admin Menu exit Camera Settings Network Settings Security Settings Multi-Screen Mode Settings Administrator Functions Log Management	Select the item to be set from the administrator settings menu.	
C Done	📃 🗍 🗐 Local intranet	

- The boosted single-view mode screen by clicking the LIVE button is displayed in the same size as that of the sent image size from the camera. However, 1280x960size of IK-WB11A is compressed into 800x600 when displayed.
- You may change the size of single-view mode screen bigger or smaller as much as you want.
- You may not see the full camera name or time display when you change the picture size to smaller one, but these will be fully displayed when you make the size bigger.

Introduction

2 To close the camera image, click the X button in the upper-right corner of the window

For an explanation on each component of the Single-View Mode window, refer to the table below.



Number and Item	Description
① Camera name	The name of the camera displaying live images.
② Alarm notification ① Alarm	This is displayed if the network camera detects motion (\rightarrow page 75) or an alarm goes off (\rightarrow page 72). The [] Alarm disappears if it is clicked.
③ Displayed images	When displaying present normal images, LIVE will be displayed, and when displaying images from the Alarm List or Record List (IK-WB11A), PLAYBACK will be displayed on the screen. You can switch these views using the controller.
④ Time and date	The current time and date of the network camera are shown when LIVE is displayed, and the recorded time and date* are shown when PLAYBACK is displayed on the screen. When in PLAYBACK mode, S) or E) may be shown with the time and date. S) (Start) indicates that the image is at the top of the playback images, and E) (End) indicates that the image is at the end. In this state, image or the time and date will not be renewed. Perform playback operation from the controller.
	*When playing images recorded in 1-second cycle on the SD memory card, even if images may seem to renewed in 2-second cycle, the images were recorded in 1-second cycle.
5 Switch views	Clicking the Endult view button switches the single-view mode to multi view. For details on multi view, refer to "Viewing Images in Multi-View Mode by Administrator" (→page 18).
(6) Switch sound on/off	If you click the 🗰 button, the button changes to 💷 and outputs the sound. Clicking the 💷 button changes the icon back to 🕷 and stops the sound.
⑦ Display controller	Clicking the 🔳 button displays the controller in a separate window.

Viewing and Listening (Administrator) (Cont.)

Number and Item	Description
(8) Move image center	Clicking a point in the image display area moves the lens up, down, left, or right accordingly and the clicked point becomes the center of the image. If the lens cannot move all the way in the specified direction, the clicked point does not become the center but the lens moves as far as it can.
(1) Image magnification	Displays the magnification of the current camera image. The magnification of the camera can be controlled with Administrator controller (\rightarrow page 23).
(1) SD memory card (IK-WB11)	 SD memory card has been inserted. Card error. Recording/Playing functions won't work normally. Remove the card once and change to new one, or check the card by performing formatting and scan disk. You may format the card from the network camera directly. (see 96 page) The card is full. There is no more space to record images, or stopped the recording because number of generated alarm has reached to its max (100). Delete the data with your PC or insert new SD memory card. You may format and delete the contents of the card from the network camera directly. (see 96 page)



• Do not close the Admin Menu when the single-view or multi-view screen is displayed. If you click the exit button when image screen is still displaying, the camera perceives it as the proof that you are still logged in. Remember, if this happens, you cannot log in again for 5 minutes.

Viewing and Listening (Administrator) (Cont.)

Viewing Images in Multi-View Mode by Administrator

At Step 2 on the previous page, click the EMulti view button in the upper-right corner of the window



•The Multi-View mode window appears. This window is automatically split into frames in accordance with the Multi-screen mode setting (\rightarrow page 103) for the number of cameras to display. For details on the number of cameras and multi-view mode, refer to "Multi-Screen Mode Window Configuration" (\rightarrow page 19).

 ${\bf \blacksquare}$ Multi view button will not be displayed when you set "Multi-Screen Mode" setting to "OFF." (${\bf \rightarrow}$ page 103)



Operating the multi-view mode

For an explanation on each component of the window, refer to "Multi-Screen Mode Window Components."(\rightarrow page 19)



3 To close the camera images, click the $\underline{\times}$ button in the upper-right corner of the window

Multi-Screen Mode Window Configuration

Number of Cameras Selected (Including Administrator's Camera)	Configuration
1 to 4	2×2
5 to 9	3×3
10 to 16、17 or more※	4×4

* More than 16 cameras cannot be displayed simultaneously in the window. Select the cameras you want to display. (→ page 103)

Multi-Screen Mode Window Components

Number and Item	Description
① Camera name	Each individually given camera name is displayed in the corresponding camera screen.
② Alarm notification ① Alarm	This icon is displayed for each network camera that detects motion (\rightarrow page 75) or generates external alarm (\rightarrow page 72). In the example window, the icon in the upper-left screen indicates that an alarm has gone off for the back door, and the icon in the lower-right screen indicates that an alarm has gone off for the garage. Usually (when no motion is detected or no alarm goes off), this icon does not appear. For details on the operations that you can perform when this icon appears, refer to "Playing Recorded Alarm Images by Administrator" (\rightarrow page 31).
③ Displayed images	When the upper left screen of the Multi-View mode is displaying present normal images. LIVE will be displayed, and when displaying images from the Alarm List or Record List (IK-WB11A), PLAYBACK will be displayed on the screen. You can switch these views using the controller. Other network cameras always display current time and date.
④ Time and date	The current time and date of the network camera are shown on the upper left screen of the Multi-View mode when LIVE is displayed, and the recorded time and date are shown when PLAYBACK is displayed on the screen. When in PLAYBACK mode, S) or E) may be shown with the time and date. S) (Start) indicates that the image is at the top of the playback images, and E) (End) indicates that the image is at the end. In this state, image or the time and date will not be renewed. Perform playback operation from the controller. Other network cameras always display current time and date.
(5) Switch views Single view	Clicking the □ Single view button displays the images of the upper-left screen in single-view mode. In the example window, the upper-left screen shows the back door. For details on single view, refer to "Viewing Images in Single-View Mode by Administrator" (→page 14).
(6) Switch sound on/off	If you click the <u>w</u> button, the button changes to <u>w</u> and outputs sound. Clicking the <u>w</u> button changes the button back to <u>w</u> and stops the sound. You can output or stop the sound from camera individually. You can output the sound from multiple cameras simultaneously. In the example, the sounds from the camera showing a back door and the camera showing a garage are played.

Viewing and Listening (Administrator) (Cont.)

Number and Item	Description
 ⑦ Display controller ④ 	Clicking the 💽 button displays the controller in a separate window. The procedure for displaying the controller is the same as that of single view. However, there is a controller for each camera screen and clicking the 💿 button in a particular screen displays a controller that can only be used to operate camera images in that screen. In the example window, you can use the controller for the back door image to operate only that image. Therefore, if you want to operate other images, display each respective controllers.
(8) Move image center	Clicking a point in the image display area moves the lens up, down, left, or right accordingly and the clicked point becomes the center of the image. If the lens cannot move all the way in the specified direction, the clicked point does not become the center but the lens moves as far as it can.
(9) Image magnification	Displays the magnification of the camera image currently displayed. The magnification can be changed from the basic administrator controller. (→page 23)

Operation of Live Camera Images by Administrator

In administrator single-view or multi-view mode, click the **1** button

.



 \cdot The basic administrator controller is displayed in a separate window.

2

Use the controller to operate images

For an explanation on each component of the administrator controller, refer to "Basic Administrator Controller Components" (→ page 22).





To close the controller, click the <u>Close</u> button in the upper-right corner of the window

Operation of Live Camera Images by Administrator (Cont.)

Basic Administrator Controller Components

Item	Description
Close Close	Clicking the Close button closes the controller.
Auto Patrol Auto Patrol	The Auto Patrol feature moves the lens automatically to all the configured preset positions in order. Clicking the Auto Patrol button starts Auto Patrol. If you do not want to display images captured while the lens is moving, enable the Freeze Activity function (→page 87). This allows you to view images at the preset positions only. Clicking one of D buttons stops the action.
Scan Scan	The Scan feature automatically moves (swivels) the lens horizontally back and forth once. Clicking the Scan button starts Scan. Clicking one of buttons stops the action.
1 Shot 1 Shot	This function converts an image to a picture data on the computer, and displays it on a new window. You can save the image as JPEG file here.
Controller	This feature adjusts the direction of the lens by panning (left/right) and tilting (up/down).
	 Each time you click the button, the lens moves up. You can move the lens in a range of eight different vertical positions. When the camera lens reaches its upper limit, clicking on the button has no effect.
	2. Each time you click the button, the lens moves left. You can move the lens in a range of eight different horizontal positions. When the camera lens reaches its left most limit, clicking on the button has no effect.
	3. Each time you click the 🕞 button, the lens moves down. You can move the lens in a range of eight different vertical positions. When the camera lens reaches its lower limit, clicking on the button has no effect.
	4. Each time you click the button, the lens moves right. You can move the lens in a range of eight different horizontal positions. When the camera lens reaches its right most limit, clicking on the button has no effect.
	5. Clicking the 📀 button returns the lens to its center position. If an external impact or other force moves the lens from its preset position, click this button to correct the position.

Introduction

rtom	
Back Light (∦ Back Light	This feature performs back light compensation. Clicking the Back Light button performs back light compensation. Clicking the button again cancels compensation. When Back Light is set to ON, the button turns to orange. When it is set to OFF, the button turn to white.
Zoom in	This feature enables you to enlarge camera images by up to 5 times. Each click of the Zoom button gradually enlarges images in the window. This feature enlarges images on the computer which have been received once, and not the direct image from the camera. Therefore, quality may deteriorate if you use this feature.
	*Dragging the mouse pointer to enlarge the size of the window continuously enlarges the images.
Zoom out 7 Zoom out	This feature enables you to the reduce camera images enlarged with Zoom in. Each click of the Zoom button gradually reduces the images in the window. Once the images have been reduced to their actual size, you cannot zoom out anymore.
	*Dragging the mouse pointer to reduce the size of the window continuously reduces the images.
Control buttons for playing and recording (G , O , C , O , etc.)	For details on these features, refer to the following pages. Control buttons for playing \rightarrow page 25
Preset	Preset →page 26
Alarm Becord	Alarm list →page 31 Becord list (IK-WB11A only) →page 34
riccoru	

docorintion

NOTE

ltom

• Back Light Compensation causes the entire image to become brighter. Therefore, it may result in the burn out of highlighted areas of the image. If you would like to adjust burn outs, try clicking the **Back Light** button to turn it ON/Off.

Others

o^{oo} Using Playback Function

If you use this function when you are viewing live images, you can play and see the images of which right before you use the function. This function is valid only when the LIVE icon is displayed on the lower part of the single or multiview mode screen. The length of the time of recorded images differs depending on the picture size and the quality. (It plays for approximately 1 minute when the size is 640x480 and the quality is MIDDLE.)

In administrator single-view or multi-view mode, click the state button



•The basic administrator controller is displayed in a separate window.

Use the controller to operate

For an explanation on each component of the controller, refer to "Basic Administrator Controller Components" (\rightarrow page 23).



3 To close the controller, click the <u>Close</u> button in the upper-right corner of the window

Basic Administrator Controller Components

Item	Description
Other camera operation buttons	Refer to page 22,
Rewind 🕜	This is the Rewind feature. Clicking the 🕔 button rewinds the recorded images in the window. When S) is shown on the time and date display, the playback image is rewound to the top.
Frame Backward 🕚	This is the Frame Backward feature. Clicking the button rewinds back the recorded images in the window by one frame.
Pause	This is the Pause feature. Clicking the $m{0}$ button pauses the recorded images in the window.
Frame Forward D	This is the Frame Forward feature. Clicking the D button forwards the recorded images in the window by one frame.
Fast Forward D	This is the Fast Forward feature. Clicking the button fast-forwards the recorded images in the window. When E) is shown on the time and date display, the playback image is forwarded to the end.
Live Live	This feature returns the mode from Playback to Live. Clicking the LIVE button displays live images in the window.
Playback 🕻	Plays playback (recorded) images. In this state, the status display turns to PLAYBACK . When LIVE is displayed on the lower part of the Single-View screen or on the lower part of the upper left screen of the Multi-View screen, you can switch the display to the PLAYBACK mode.

Introduction

25

Presetting of Camera Angle by Administrator

The presets function enables you to register up to ten different angles and names for the camera. Clicking the <u>Preset</u> button on the basic administrator controller opens the preset controller. % You cannot register zoom information.



Recording

Selecting a pre-registered preset from the Preset list of the preset controller switches to the preset lens angle.



In the list, click the radio button on the left of the preset you want to select





•The lens moves to the pre-registered position of the preset. If a position was not registered for the preset you selected, the lens does not move. Moving the lens using this feature requires the position of the preset to be registered beforehand. See "Configuring a Preset" in next page.

Set up

Presetting of Camera Angle by Administrator (Cont.)



• Any existing settings of a preset will be overwritten when you register new settings to the preset.

Set up

Others

iewing • I and Ope

_istening

Recording

Set up

Deleting Preset Settings

You can delete the lens position setting of a preset in the Preset list.



• Clicking deletes the registered preset name.

Others

Presetting of Camera Angle by Administrator (Cont.)

Naming/Renaming Individual Presets

You can name each preset in the Preset list. This makes it easier to distinguish individual preset settings.

In the list, click the radio button on the left of the preset you want to name



· The name appears instead of the preset number.

Playing Recorded Alarm Images by Administrator

The administrator can play images which are recorded when alarm goes off. The images play at fixed intervals regardless of the setting at the time of recording. Image settings such as "Camera Picture Size" correspond to the settings at the time the alarm went off.

How to play a recorded image In administrator single-view or multi-view mode, click the button Image: Screen Mo... Image: Screen Mo...



Click the <u>Alarm</u> button

 \cdot The administrator controller for the Alarm list is displayed.



Playing Recorded Alarm Images by Administrator (Cont.)

NOTE

- When the administrator controller for the Alarm list is displayed, you can also use all of the features explained in "Basic Administrator Controller Components" (→ page 22).
- Items in the Alarm list appear from left to right in the order of list number, alarm type, generation time/date, and play button.
- If you click the <u>w</u> button at the bottom of the screen, the list of previous ten alarms appears. If you click the <u>button</u>, the list of next ten alarms appears.
- If you click the Alarm 1 tab, the administrator controller returns to its original size.
- When FTP Recording function is set to ON, you cannot use or click on the Alarm 1 tab.
- When displaying Administrator Alarm List controller and saving the data when the FTP Recording function is set to ON, the Alarm List controller turns back to Administrator controller automatically. You cannot use or click on the Alarm tab after that. Some browser may close the controller automatically.
- To be able to use or click on the Alarm tab, set the FTP Recording function to OFF.

In the list, click the **b** button on the right of the recording you want to play

· The recording selected in the Alarm list plays.

NOTE

- You can use the control buttons when playing a recorded image to, for example, rewind or fast-forward.
- To return from the recorded image to the live image screen, click the **LIVE** button.
- While the Alarm list is displayed, click the **Preset** tab to switch to the Preset list and the **Record** tab to switch to the Record list.
- When playing recorded alarm images, the camera will not record new alarm notification.
- When new alarm has been generated while the alarm controller is displayed, the notification will not be added to the list right away. In that case, close the controller once and re-display it.

• Alarm List Controller Components

Item	Description
Other camera operation buttons	Refer to page 22.
Rewind	This is the Rewind feature. Clicking the 🕢 button rewinds the recorded alarm images in the window. When S) is shown on the time and date display, the Alarm image is rewound to the top.
Frame Backward 🕚	This is the Frame Backward feature. Clicking the () button rewinds back the recorded alarm images in the window by one frame.
Pause	This is the Pause feature. Clicking the $oldsymbol{0}$ button pauses the recorded alarm images in the window.
Frame Forward D	This is the Frame Forward feature. Clicking the D button forwards the recorded alarm images in the window by one frame.
Fast Forward D	This is the Fast Forward feature. Clicking the button fast-forwards the recorded alarm images in the window. When E) is shown on the time and date display, the Alarm image is forwarded to the end.
Live (IVE)	This feature returns the mode from alarm Playback to Live. Clicking the LIVE button displays live images in the window.
Alarm Image Playback	This is the alarm Playback feature. Clicking on this button during Live image mode plays back before and after* images of detected Alarm. Clicking on this button when the recording is in a pause, frame backward, frame forward, rewind, or fast forward state returns the state to normal playback.
	* Numbers of recorded frame differ depending on numbers of Pre- or Post-recorded frame configured in Alarm Recording in Recording Settings. (see page 45, 95)

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Playing Recorded Normal Images by Administrator (IK-WB11A)

The administrator can play recorded normal images saved to an SD memory card. The images play at fixed intervals regardless to the setting at the time of recording. Image settings such as "Camera Picture Size" correspond to the settings at the time of recording.

How to play the recording

In administrator single-view or multi-view mode, click the (**E**) button



• The basic administrator controller is displayed in a separate window.



The administrator controller for the Record list is displayed.

•



Others

NOTE

- When the administrator controller for the Record list is displayed, you can also use all the functions explained in "Basic Administrator Controller Components" (→ page 22).
- Items in the Record list appear from left to right in the order of list number, generation time/date, and play button.
- If you click the <u>w</u> button at the bottom of the screen, the list of previous ten recordings appears. If you click the <u>button</u>, the list of next ten recordings appears.
- If you click the Record] tab, the administrator controller returns to its original size.
- When FTP Recording Function is set to ON, you cannot use or click on the Record] tab.
- When displaying Administrator Record List controller and saving the data when the FTP Recording Function is set to ON, the Record List controller turns back to Administrator controller automatically. You cannot use or click on the **Record** tab after that. Some browser may close the controller automatically.
- To be able to use or click on the **Record** tab. set the FTP Recording Function to OFF.

3

In the list, click the 🕞 button on the right of the recording you want to play

 \cdot The recording selected in the Record list plays.

- You can use the control buttons when playing a recorded image to, for example, rewind or fast-forward.
- To return from the recorded image to the live image screen, click the **LIVE** button.
- While the Record list is displayed, click the **Preset** I tab to switch to the Preset list and the **Alarm** I tab to switch to the Alarm list.
- Operation of recorded normal images is the same as the operation of recorded alarm images (→ page 31).
- Normal images are recorded by the hour.
- The camera cannot record normal images when playing recorded normal images.

Playing Recorded Normal Images by Administrator (IK-WB11A) (Cont.)

Record List Controller Components

Item	Description
Other camera operation buttons	Refer to page 22.
Rewind 🕔	This is the Rewind feature. Clicking the 🕔 button rewinds the recorded normal images in the window. When S) is shown on the time and date display, the recorded normal image is rewound to the top.
Frame Backward 🕔	This is the Frame Backward feature. Clicking the \bigcirc button rewinds back the recorded normal images in the window by one frame.
Pause	This is the Pause feature. Clicking the 🕕 button pauses the recorded normal images in the window.
Frame Forward D	This is the Frame Forward feature. Clicking the b button forwards the recorded normal images in the window by one frame.
Fast Forward 🛛 D	This is the Fast Forward feature. Clicking the button fast-forwards the recorded normal images in the window. When E) is shown on the time and date display, the recorded normal image is forwarded to the end.
Live (Live)	This feature returns the mode from Recorded Normal Image Playback to Live. Clicking the Live button displays live images in the window.
Recorded Normal Image Playback	This is the Recorded Normal Image Playback feature. Clicking on this button during Live image mode plays back the images* recorded in the period which configured in Normal Recording and Timer Recording in the Recording Settings. Clicking this button when the recording is in a paused, frame backward, frame forward, rewind, or fast forward state returns the state to normal playback.
	* Numbers of recorded frame differ depending on cycles which are configured in Normal Recording and Timer Recording in the Recording Settings. (see page 95)
Introduction

Viewing and Listening (Users)

The viewing and listening are not restricted for users. However, the administrator may restrict the use of features. Basically, users can operate the lens from a remote location, but cannot configure camera presets or view recorded images. For details, refer to "Camera Administrator and User" (\rightarrow page 12).

How to view images, listen sound and operate cameras are explained after the following user login procedure explanation.

※ Install "Java™2" to display images and output sound correctly on a user's personal computer, (→ Basic User's Guide page 12).

User Login

If the administrator sets "User Restrictions" to "ON," users cannot access a camera unless they enter the user information (user ID and password) which the administrator configured.

Viewing Images in Single-View Mode by Users

1 With the Internet browser displayed on the user's personal computer, enter the following URL and press ENTER

http://192.168.0.30/ (When IP address is in default setting)

· If you enter this URL, the User Login screen appears.

🗿 TOSI	HIBA	Netw	ork Camer	a - User	Login	- Microsoft Internet Explorer	_ 🗆 ×
<u>F</u> ile <u>E</u>	dit	⊻iew	F <u>a</u> vorites	Tools	<u>H</u> elp		10
TOSH	IIBA	Ne	twork Ca	mera			<u>~</u>
		_			_		
		'1	wcam0	1' Lo _i	gin		
				log	in [
			F	asswor	d [
						login	×

- The login screen differs depending on whether or not the administrator is restricting the user. When there is no user restriction, login ID and password entering fields will not be displayed.
- The boosted single-view mode screen by clicking the LIVE button is displayed in the same size as that of the sent image size from the camera. However, 1280x960size of IK-WB11A is compressed into 800x600 when displayed.

You may change the size of single-view mode screen bigger or smaller as much as you want.

• You may not see the full camera name or time display when you change the picture size to smaller one, but these will be fully displayed when you make the size bigger.

Others

Viewing and Listening (Users) (Cont.)



· The camera images appear in single-view mode.



NOTE

 The configuration and way of performing operations for this window are the same as that of the administrator single view window except Live icon display.
 For details on the configuration and way of performing operations, refer to "Viewing Images in Single-View Mode by Administrator" (→ page 14).

Viewing Images in Multi-View Mode by User

At Step 2 on the previous procedure, click the Multi view button in the upper-right corner of the window



•The Multi-Screen Mode window appears. This window is automatically split into frames in accordance with the Multi-Screen Mode settings (→page 103) for the number of cameras to display. For details on the number of cameras and multi view, refer to "Multi-Screen Mode Window Configuration" (→ page 19).



•Only the administrator can select which cameras will appear in multiview mode screen. When the user switches to multi view, the multi view configuration corresponds to the cameras selected by the administrator.

 The configuration and way of performing operations for this window are the same as that of the administrator multi-view window. For details on the configuration and way of performing operations, refer to "Viewing Images in Multi-View Mode by Administrator" (→ page 18).

Viewing and Listening (Users) (Cont.)

Operating Live Camera Images by User



In user single-view or multi-view mode, click the button

ra - Single-So	creen Mo 🔳 🔳 🗙
	== Multi view
	* 0

 \cdot The basic user controller is displayed in a separate window.



Use the controller to operate

·For an explanation on each component of the user controller, refer to "Basic User Controller Components" (\rightarrow page 41).

000000





3 To close the controller, click the **Close** button in the upper-right corner of the window

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Basic User Controller Components

Item	Description
Close Close	Clicking the Close button closes the controller.
1 shot	This function converts an image to a picture data on the computer, and displays it on a new window. You can save the image as JPEG file here.
Controller	This feature adjusts the direction of the lens by panning (left/right) and tilting (up/down).
	 Each time you click the button, the lens moves up. You can move the lens in a range of eight different vertical positions. When the camera lens reaches its upper limit, clicking on the button has no effect.
	2. Each time you click the 👂 button, the lens moves
	left. You can move the lens in a range of eight different horizontal positions. When the camera lens reaches its left most limit, clicking on the button has no effect.
	3. Each time you click the 🕞 button, the lens moves down. You can move the lens in a range of eight different vertical positions. When the camera lens reaches its lower limit, clicking on the button has no effect.
	4. Each time you click the button, the lens moves right. You can move the lens in a range of eight different horizontal positions. When the camera lens reaches its right most limit, clicking on the button has no effect.
Zoom in	This feature enables you to enlarge camera images by up to 5 times. Each click of the Ezomin button gradually enlarges the images appearing in the window. This feature enlarges images on the computer which have been received once, and not the direct image from the camera. Therefore, quality may deteriorate if you use this feature.
	*Dragging the mouse pointer to enlarge the size of the window continuously enlarges the images.
Zoom out	This feature enables you to reduce camera images enlarged with Zoom in. Each click of the Zoom out button gradually reduces the images appearing in the window. Once the images have been reduced to their actual size, you cannot zoom out anymore.
	*Dragging the mouse pointer to reduce the size of the window continuously reduces the images.

NOTE

• User's "1 shot" function and the controller cannot be operated if an administrator restricts the use of PAN/TILT function of the users.

Recording

- About Recording Images
- Recording Images on Network Camera
- Recording Images on SD Memory Card (IK-WB11A only)
- Recording Images on FTP Server

About Recording Images

Network camera can record images according to your need. Recordable media and its recordable contents are as follows.

Recordable Media	Recordable Contents
Inside of Network Camera	 Images of external alarm Images of detected motion (IK-WB11A only) Buffering (temporarily stored) images of last some seconds. (Recording time will differ depending on "Camera Picture Size" and "Picture Quality" (→page 90) settings.)
SD Memory Card (IK-WB11A only)	 Alarm Recording images configured in "Alarm Recording" settings (→page 95). Normal Recording images configured in "Normal Recording" settings (→page 95).
FTP Server	 Data of "Periodic Recording by Schedule" Data of "When Alarm goes off"

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Recording Images on Network Camera

You may record two kinds of alarm images and images of last some seconds on the network camera.

To record alarm images, perform administrator login and configure "Alarm Settings" first (\rightarrow page 72 to 78), then follow the steps below to configure "Recording Function Settings".

Recording Function Settings (Alarm Recording)

- 1) Perform administrator login (\rightarrow page 13)
- 2) In the left side of the window, click the toggle (+) of "Camera Settings"

3) Click "Recording" in the sub menus

• The settings appear in the right side of the window. (This picture is an example of IK-WB11A)

TOSHIBA Network Camera			Camera - Recording Function Settings	
Admin Menu exit	If the "Network Settings-FTP Recording-Image Recording by FTP" function is confirmed, the followings will be invalid. The condition set up here is held as R is.			
	Alarm Recording			
Camera Settings	Constinu	External Alarm	C ON (picture recorded when alarm goes off) C OFF	
1. <u>General</u> 2. <u>PAN/TILT</u> 3. <u>Alarm</u>	Function	Motion Sensor	C ON (picture recorded when motion is detected) C OFF	
4. <u>Privacy Mask</u> 5. Recording	Pre-Rec	ording	10 rames	
Network Settings	Post-Recording		10 rames	
Security Settings	Recording Cycle		2 seconds	
Multi-Screen Display Settings			When picture size is either 1280×960 or 800×600, it will be a minimum of 2 seconds.	
Log Management			reset save	

4) Configure each setting items

Function

Select ON or OFF for both "External Alarm" and "Motion Sensor" (IK-WB11A only).

Pre-Recording

Pre-Recording records image(s) of right before alarm has generated. You can set numbers of frames you want to record. An image of the moment alarm has generated will not be included.

Post-Recording

Post-Recording records image(s) of right after alarm has generated. You can set numbers of frames you want to record. An image of the moment alarm has generated will not be included.

Recording Cycle

Configures recording cycle of Pre-Recording and Post Recording.

• Total number of recorded image frames per one alarm will be the sum of Pre-Recording image(s) + an image when alarm has generated + Post-Recording image(s).

5) To finish configuring Recording Function Settings, click the settings

 \cdot The changes are saved.

To restore the previous configuration, click the reset button below the settings

· The changes are discarded.

Others

Recording Images on SD Memory Card (IK-WB11A only)

Alarm images and Normal Recording images can be recorded on SD memory card.

Perform administrator login and configure "Alarm Settings" first (\rightarrow page 72 to 78), then follow the steps below to configure "Recording Function Settings".

* See NOTE of "Recording Images on FTP Server" as well.

Recording Function Settings

- Insert SD memory card to the camera (→ Basic User's Guide page 15)
- 2) Perform administrator login (→ page 13)
- 3) In the left side of the window, click the toggle (+) of "Camera Settings"
- 4) Click "Recording" in the sub menus

 \cdot The settings appear in the right side of the window. (This picture is an example of IK-WB11A)

ile <u>E</u> dit ⊻iew F <u>a</u> vorites <u>I</u> ools <u>H</u> elp		
TORNIDA Manual Comme	Pre-Recording	10 T frames
USHIDA Network Camera	Post-Recording	10 rames
👂 nwcam01 🛛 🛛 🛛 🛛 🖉	Recording Cycle	2 seconds
Admin Menu exit	Recording Cycle	When picture size is either 1280×960 or 800×600, it will be a minimum of 2 seconds.
	Normal Recordi	ng
	Function	C ON (normal recording conducted) C OFF
1. General	Recording Cycle	60 seconds When nighter size is either 1280×960 or 800×600, it will be a minimum of 2 seconds.
2. <u>PAN/TILT</u> 3. <u>Alarm</u> 4. <u>Privacy Mask</u> 5. Recording	Timer Association	C ON (recording associated to internal timer) C OFF
Network Settings	Timer Recording	
Multi-Screen Display Settings	The following settings a	e valid when Timer Association is set to "ON":
Administrator Functions Log Management	Time Setting	Start: 8 💌 o'clock Stop: 17 💌 o'clock
	Over Writing	
	If SD-Card fills, it will o	verwrite the oldest image.
	Function	C ON C OFF
		reset save
	SD Memory Ca	rd Formatting
	Format SD memory c	ard format

5) Configure each setting items

Setting Alarm Recording

Follow the instructions of Step 4 on page 45.

- Normal Recording
 - Function
 - Select ON or OFF.
 - · Recording Cycle

Configure recording period of Normal Recording images.

· Timer Association

Select ON or OFF. Configure settings of the timer in "Timer Recording".

Configure "Start" time and "Stop" time for the timer. This setting will be abled only when "Timer Association" under "Normal Recording" is set to ON.

Over Writing

This function overwrites the old data when SD memory card becomes full.

6) To finish configuring Recording Function Settings, click the save button below the settings

· The changes are saved.

To restore the previous configuration,

click the <u>reset</u> button below the settings

· The changes are discarded.

• SD Memory Card Formatting

All the data in SD memory card will be deleted by clicking <u>format</u> button.

Recording Images on FTP Server

By using FTP server, it becomes possible to manage periodic transferring and saving huge recorded image data. The images you can record on FTP server are "Periodic Recording by Schedule" and "When Alarm goes off" images.

• When FTP function is set to on (selecting other than "OFF"), you cannot record Alarm/Normal images on SD memory card (IK-WB11A only).

Important

• Even though there are Alarm/Normal recording images saved on SD memory card (IK-WB11A only), these image data will be all deleted at the time FTP function is set to on (selecting other than "OFF"). Therefore, if there are necessary image data saved on SD memory card, insert another SD memory card to the camera or make the backup data before setting FTP function to on.

Recording Function Settings

- 1) Perform administrator login (→ page 13)
- 2) In the left side of the window, click the toggle (+) of "Network Settings"

3) Click "FTP Recording" in the sub menus

• The settings appear in the right side of the window. (This picture is an example of IK-WB11A)

Address Attp://192.168.0.30/admin.htm				• @Go			
TOSHIBA Network Camera			Network - FTP Recording Settings	ĺ			
Admin Menu exit	If the "Image Recording by FIT" Indicine is confirmed, three Renn described below will be invalid. "Carner Settings-Recording-Varian Recording" runction. "Carner Settings-Recording-Variant Recording" runction. "Hervinx" Settings-Nahr-Artecter Picture Size Setting" runction. "Alternit" lists and Normal "Record" lists in the Controller are not available.						
Camera Settings	NOTE that all "Alarm" lists and Normal "Record" lists will be gone.						
Network Settings	Imaga	ecording by	FTD				
1. General	If the "Alarm	If the "Name Detection" is sharen, shark either the "External Name Detection" or the "Notion Detection", or both					
2. Wireless LAN 3. Mail		C Perindic Recording by Schedule					
 Routing Table ARP Table 			External Alarm moss off				
6. DDNS 7. FTP Recording	Image Reco	rding by FTP	C When Alarm goes off				
-	© OFF						
Security Settings			- 011				
Administrator Euoctions	ETP Ser	ver Setup					
Log Management	The following	settings are vali	d when "Image Recording by FTP" is not set to "OFF":	-			
		Server Na	me	-			
	FTP Server	C IP Address					
	User Account to FTP Server	User ID		-			
		Password		-			
		Password (C	onfirm)	-			
	FTP Port Number	21 (Defa	ult value = 21, do not change unless necessary.)				
		@ PORT					
	FTP Mode	C PASV					
۲	Connection to FTP	C Stay conn	ected. (Select for high frame rate.)				

4) Configure each setting items

Image Recording by FTP:

Select either "Periodic Recording by Schedule", "When Alarm goes off" or "OFF". When selecting "When Alarm goes off", select "External Alarm goes off" and/or "Motion Detection" as well (IK-WB11A only).

Viewing • Listening and Operation

Others

FTP Server Setup

This setting will be enabled when "Image Recording by FTP" setting is set to on (selecting other than "OFF").

• FTP Server:

Select either one of them below and enter correct information.

- \cdot Server Name (no more than 64 characters)
- · IP Address (3-digit (or less) number each)

• User Account to FTP Server:

- \cdot User ID: Only for a user who has the right to access FTP server. Ask FTP server administrator for details. (no more than 64 characters)
- Password: Enter password registered with user ID above. (no more than 32 characters)
- · Password (Confirm): Reenter the password.

• FTP Port Number:

· Usually, enter "21".

Important

• Do not change the port number unless your provider or the network administrator tell you to do so.

· FTP Mode:

- · PORT (active mode): Usually, chose this one.
- PASV (passive mode): When the camera's network environment is protected by Firewall or the like, access from outside FTP server may not be possible with PORT (active mode). In this case, chose PASV (passive mode).

Connection to FTP Server:

 Select "Stay connected" when transferring data frequently, like "Periodic Recording by Schedule". In this way, you can record images faster.

- When selecting "Periodic Recording by Schedule", network camera logs in to FTP server automatically a minute before the scheduled recording starts. Even though the scheduled recording stops, when there are some unsent image data left in the camera, the camera will not log out from FTP server automatically until it transfers all the image data.
- When selecting "When Alarm goes off", network camera logs in/out automatically each time an alarm goes off. When there is more than one alarm at a time (receiving another alarm(s) while transferring a file), the camera logs out from the server after transferring last image data.
- \cdot Select "Re-connect" when data transfer is not so frequent. In this case, network camera logs in/out for each file transfer.

Recording Images on FTP Server (Cont.)

Conditions for Image Recording by FTP

• Configures recording conditions of recording style you have selected in "Image Recording by FTP". Click each item to set conditions.

"Periodic Recording by Schedule"- see page 51 "When Alarm goes off"- see page 53

 \cdot Conditions for the Image Accumulation Inside of the Camera (IK-WB11A only)

Configures whether or not to stock image data in SD memory card when the camera could not record image(s) on FTP server due to network problems.

- Image Accumulation:
 - Select "ON" to stock image data on SD memory card.
 Select "OFF" if you do not need to stock image data on SD memory card.

 When selecting "ON" in Image Accumulation, SD memory card will be formatted. If there are necessary data on SD memory card, make backup data first.

Image Accumulation Cycle

Configure recording cycle of accumulated images.
Possible setting ranges are as follows:
1*, 2, 5, 10, 15, 30, 60, 120, 300, 600, 900, 1800, 3600 (seconds)

*When image size is 1280x960 or 800x600, minimum cycle will be 2 seconds.

Over Writing

 Configures whether to overwrite the contents when SD memory card accumulation capacity becomes full.
 ON: Overwrites the images from the old ones.
 OFF: New images will not be saved.

 Set "Image Accumulation" to "ON" before setting "Image Accumulation Cycle" and "Over Writing".

5) To finish configuring Recording Function Settings, click the save button below the settings

· The changes are saved.

To restore the previous configuration, click the reset button below the settings

· The changes are discarded.

Settings for "Periodic Recording by Schedule"

- Click "Periodic Recording by Schedule" on "Conditions for Image Recording by FTP" (→ page50)
 - · Following screen appears on new window.

Image Recording by FTP - Periodic Recording by Schedule							
The following settings are valid when "Image Recording by FTP" is set to "Periodic Recording by Schedule". Set the schedule for each day of the week below.							
	Recording Schedule						
	OFF	All Day	Timer Pattern 1	Timer Pattern 2			
Monday	۲	C	0	c			
Tuesday	•	c	C	C			
Wednesday	e	с	c	c			
Thursday	e	C	c	c			
Friday	e	С	с	0			
Saturday	•	c	C	C			
Sunday	e	С	0	C			
Set the Timer When the Sto	Pattern below. p time is before the Start time, tl	ne Stop time will be the follow	wing day.				
Timer Pattern 1	Start: 8 am 💌 o'clock - Stop: 5 pm 💌 o'clock						
Timer Pattern 2	Start: 8 am 💌 o'clock - Stop: 5 pm 💌 o'clock						
Recording	One image is recorded for every 1 🗾 seconds.						
Cycle	It may change according to picture size, a circuit situation, etc.						
	LV ,	yyymmddHHMMSS***N	JPG				
	Input the file name with a maxim	num of 16 characters.					
Recording LV shows LIVE pictures. File Name yryymmdbHMMSS is time and date that is added (year-month-day-hour-minute-second). ** is time a digits and serves as record with the old one where this number is smaller in the same time. This number is not necessarily increasing every [1]. N *Vnot Daylight Saving.							
Recording Directory Directory of the FTP server.							
reset save close							

2) Configure "Recording Schedule"

· Select one of the setting items for each day of a week.

"OFF": No recording at all.

"All Day": Records images all day.

"Timer Pattern 1": Records images in a period you configured in "Timer Pattern 1".

"Timer Pattern 2": Records images in a period you configured in "Timer Pattern 2".

3) Configure timer pattern

• You may configure both "Timer Pattern 1" and "Timer Pattern 2" and use them according to your need.

Possible setting timer range is between 0 am and 11 pm for both "Start" and "Stop".

• When "Stop" time is set at earlier time than "Start" time, the "Stop" time will be a blank.

Introduction

Recording Images on FTP Server (Cont.)

4) Configure "Recording Cycle"

Setting ranges are: 0.03, 0.06, 0.1, 0.2, 0.5, 1, 2, 5,
10, 15, 30, 60, 120, 300, 600, 900, 1800, 3600.

·Configured recording cycle will be reflected to "All Day", "Timer Pattern 1" and "Timer Pattern 2".

NOTE

• The cycle may shift depending of image size and networking conditions.

5) Enter "Recording File Name"

•Enter characters (no more than 16 characters) in the part described as (keyword).

File name will be shown like this:

e.g. LV (Keyword) yyyy mm dd HH MM SS ***N.JPG

NOTE

• You cannot use these characters: \/:;, "|?*<>

Followings are the meaning of each part.

LV	Indicates this is the "Periodic Recording by Schedule" file.
(Keyword)	Enter user defined keyword in 16 or less characters.
yyyymmdd	Indicates date (Year, Month, Day). (e.g. January 1, 2004 → 2004 01 01)
HHMMSS	Indicates time (Hour, Minute, Second). (e.g. 23:59:00 \rightarrow 23 59 00). Time is displayed in 24-hour time display.
***	Series numbers. (->see page 55 for detail) If the camera records more than one image at the same period, the order is indicated with 3-digit number. The bigger the number, the newer (latest) the image.
N	Indicates Daylight Saving. N: Not in Daylight Time D: Daylight (Summer) Time

6) Enter "Recording Directory on the FTP Server"

• Configure FTP server directory to record files (Enter no more than 128 characters). If you do not know the directory, ask for your FTP server administrator.

7) Click save configured items

- The display goes back to "Network FTP Recording Settings" screen.
- To restore the previous configuration, click reset button below the settings.
 - The changes are discarded.
- · To close the window without saving the configuration, click close J.

NOTE

• When you also have changed setting items in "FTP Recording ", be sure to click save in "Network - FTP Recording Settings" screen, too.

	Image Recording by FTP - Recording When Alarm goes off
	The following settings are valid when "Image Recording by FTP" is set to either "External Alarm goes off" or "Motion Detection", or both.
	Recording When Alarm detected
	Pre- Recording Anter set to "MAX", the number of recording files depends on the "Camera Picture Size" and the "Picture Quality".
	Number of Pre-Recording frames may decrease according to a circuit situation, a recording cycle, etc.
	Post Post Numerically 0 through 1000. Number of Post Recording frames may decrease according to a circuit situation, a recording cycle, etc.
	Recording One image is recorded for every 1 seconds
	EX VYVIN It may change according to picture size, a circuit situation, etc. EX VYVIN VYVININGHHHMMSS**NA JPG
	Input the file name with a maximum of 16 characters.
	CA
	Recording
	on the of the FTP Server. Server Input the default directory of the FTP server.
	reset save close
	Please also save "FTP Recording Settings", when the contents of "FTP Recording Settings" are changed.
Co	nfigure the numbers of frames you want to record for Pre-Recording
۰ P D	ossible numbers of frames are as follows:
۰ P 0 * '	ossible numbers of frames are as follows: , 1, 2, 5, 10, 30, MAX* When ecleating "MAX" recording frame numbers will differ depending
· P 0 * ' (((ossible numbers of frames are as follows: , 1, 2, 5, 10, 30, MAX* When selecting "MAX", recording frame numbers will differ depending on configured "Camera Picture Size" and "Picture Quality"(→see page 90). When Camera Picture Size and Picture Quality are in default setting, image size is 640x480 (VGA) and quality is MIDDLE, approximately 200 frames will be recorded. Numbers of recorded image frame may decrease depending on networking conditions and recording cycle.
· P 0 * ((((((((((((((((())))))	ossible numbers of frames are as follows: , 1, 2, 5, 10, 30, MAX* When selecting "MAX", recording frame numbers will differ depending on configured "Camera Picture Size" and "Picture Quality"(→see page 90). When Camera Picture Size and Picture Quality are in default setting, image size is 640x480 (VGA) and quality is MIDDLE, approximately 200 frames will be recorded. Numbers of recorded image frame may decrease depending on networking conditions and recording cycle. nfigure the numbers of frames you want to record for Post-Recording nter the number between 0 and 1000.
• P 0 * ((; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	ossible numbers of frames are as follows: , 1, 2, 5, 10, 30, MAX* When selecting "MAX", recording frame numbers will differ depending on configured "Camera Picture Size" and "Picture Quality"(→see page 90). When Camera Picture Size and Picture Quality are in default setting, image size is 640x480 (VGA) and quality is MIDDLE, approximately 200 frames will be recorded. Numbers of recorded image frame may decrease depending on networking conditions and recording cycle. nfigure the numbers of frames you want to record for Post-Recording nter the number between 0 and 1000. LOTE
• P 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0	ossible numbers of frames are as follows: , 1, 2, 5, 10, 30, MAX* When selecting "MAX", recording frame numbers will differ depending on configured "Camera Picture Size" and "Picture Quality"(→see page 90). When Camera Picture Size and Picture Quality are in default setting, image size is 640x480 (VGA) and quality is MIDDLE, approximately 200 frames will be recorded. Numbers of recorded image frame may decrease depending on networking conditions and recording cycle. nfigure the numbers of frames you want to record for Post-Recording nter the number between 0 and 1000. IOTE
• P 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0	ossible numbers of frames are as follows: , 1, 2, 5, 10, 30, MAX* When selecting "MAX", recording frame numbers will differ depending on configured "Camera Picture Size" and "Picture Quality"(→see page 90). When Camera Picture Size and Picture Quality are in default setting, image size is 640x480 (VGA) and quality is MIDDLE, approximately 200 frames will be recorded. Numbers of recorded image frame may decrease depending on networking conditions and recording cycle. nfigure the numbers of frames you want to record for Post-Recording nter the number between 0 and 1000. IOTE • Numbers of recorded image frame may decrease depending on networking conditions and recording cycle.
	ossible numbers of frames are as follows: , 1, 2, 5, 10, 30, MAX* When selecting "MAX", recording frame numbers will differ depending on configured "Camera Picture Size" and "Picture Quality"(→see page 90). When Camera Picture Size and Picture Quality are in default setting, image size is 640x480 (VGA) and quality is MIDDLE, approximately 200 frames will be recorded. Numbers of recorded image frame may decrease depending on networking conditions and recording cycle. nfigure the numbers of frames you want to record for Post-Recording nter the number between 0 and 1000. IOTE • Numbers of recorded image frame may decrease depending on networking conditions and recording cycle. nfigure "Recording Cycle"
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 ossible numbers of frames are as follows: 1, 2, 5, 10, 30, MAX* When selecting "MAX", recording frame numbers will differ depending on configured "Camera Picture Size" and "Picture Quality"(→see page 90). When Camera Picture Size and Picture Quality are in default setting, image size is 640x480 (VGA) and quality is MIDDLE, approximately 200 frames will be recorded. Numbers of recorded image frame may decrease depending on networking conditions and recording cycle. nfigure the numbers of frames you want to record for Post-Recording networking conditions and recording cycle. Numbers of recorded image frame may decrease depending on networking conditions and recording cycle. Numbers of recorded image frame may decrease depending on networking conditions and recording cycle. Numbers of recorded image frame may decrease depending on networking conditions and recording cycle. Networking conditions and recording cycle. Networking conditions and recording cycle.
	ossible numbers of frames are as follows: , 1, 2, 5, 10, 30, MAX* When selecting "MAX", recording frame numbers will differ depending on configured "Camera Picture Size" and "Picture Quality"(→see page 90). When Camera Picture Size and Picture Quality are in default setting, image size is 640x480 (VGA) and quality is MIDDLE, approximately 200 frames will be recorded. Numbers of recorded image frame may decrease depending on networking conditions and recording cycle. nfigure the numbers of frames you want to record for Post-Recording nter the number between 0 and 1000. IOTE • Numbers of recorded image frame may decrease depending on networking conditions and recording cycle. nfigure "Recording Cycle" • Records 1 image per configured recording cycle (second). Possible recording cycles are:

• Cycle may change depending on image size and networking conditions.

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Recording Images on FTP Server (Cont.)

5) Enter "Recording File Name"

 \cdot Enter characters (no more than 16 characters) in the part described as (keyword).

File name will be shown like this:

e.g. EX (Keyword) yyyy mm dd HH MM SS ***N--A.JPG

• You cannot use these characters: \/:;,"|?*<>

Followings are the meaning of each part.

EX/MD	"EX" indicates this is the file for detected external alarm.
	"MD" indicates this is the file for detected motion (IK-WB11A only).
(keyword)	Enter user defined keyword in 16 or less characters.
yyyymmdd	Indicates date (Year, Month, Day). (e.g. January 1, 2004 → 2004 01 01)
HHMMSS	Indicates time (Hour, Minute, Second). (e.g. $23:59:00 \rightarrow 235900$). Time is displayed in 24-hour time display.
***	Series numbers. (→see page 55 for detail) If the camera records more than one image at the same period, the order is indicated with 3-digit number. The bigger the number, the newer (latest) the image.
N	Indicates Daylight Saving. N: Not in Daylight Time D: Daylight (Summer) Time
	Indicates total number of generated alarm(s). when the number reaches to 99, it returns to 00 and starts adding again.
A/B/C	A: Pre-Recording images. B: Image when alarm has generated. C: Post-Recording images.

6) Enter "Recording Directory"

• Configure FTP server directory to record files (Enter no more than 128 characters). If you do not know the directory, ask for your FTP server administrator.

7) Click save to save configured items

- The display goes back to "Network FTP Recording Settings" screen.
- To restore the previous configuration, click reset button below the settings.

· The changes are discarded.

• To close the window without saving the configuration, click <u>close</u>.

NOTE

• When you also have changed setting items in "FTP Recording", be sure to click save in "Network - FTP Recording Settings" screen, too.

Series Number

Series number is the number attached to a file when recording cycle is set at less than a second. When recording cycle is set at more than 1 second, series number will be displayed as 000.

Ranges of attached series number for recording cycle less than a second are as follows:

fps*	Ranges of Attached Series Number
30	000~029
15	000~014
10	000~009
7.5	000~007
5	000~004
2.5	000~002

* fps: frame/second (→see nextpage)

NOTE

• Numbers attached as series numbers will not necessarily increase by one. There may be a lack of numbers depending on Recording Cycle setting.

Recording Images on FTP Server (Cont.)

Recording Cycle of FTP Server Recording

Actually, recording cycle is counting JPEG Encode Output Rate (see tables below). Because of this, when recording cycle setting is set at less than a second, and depending on image size and frame rate settings, there may be a mode that cannot follow the FTP recording cycle configurations exactly.

JPEG Encode Output Rate

IK-WB01A (comparison with frame rate)

Image Size Frame Rate	VGA/QVGA/QQVGA	QVGA zoom QQVGA zoom
HIGH	7.5fps (0.13sec)	15fps (0.067sec)
MIDDLE	5fps (0.2sec)	10fps (0.1sec)
LOW	2.5fps (0.4sec)	5fps (0.2sec)

IK-WB11A (comparison with image quality)

Image Size Image Quality	VGA/SVGA/SXVGA	QVGA /QQVGA
HIGH	7.5fps (0.13sec)	7.5fps (0.13sec)
MIDDLE	7.5fps (0.13sec)	30fps (0.03sec)
LOW	7.5fps (0.13sec)	30fps (0.03sec)

- When using Slow Shutter, FTP transfer frame rate will be lowered than above rate.
- When a value in parenthesis is larger than a value in FTP recording cycle setting, the value in parenthesis will be the actual recording cycle.

Viewing • Listening and Operation

File Transfer Order

Periodic Recording by Schedule

Basically, files are transferred in recorded order. However, because of the differences on image accumulation functions between IK-WB11A and IK-WB01A, these cameras may take following processes depending on networking conditions.

● IK-WB11A

- 1) When networking condition causes the file transferring delay, the camera may transfer the old files in the file transfer intervals.
- 2) When files could not transfer are still left by the time transferring schedule comes to end, the camera will keep continue to transfer the files until it transfers all the files.

● IK-WB01A

Because IK-WB01A does not have "Image Accumulation" functions, there may be a lack of some files if condition of unable to transfer files continues for a long period of time.

 Depending on the conditions of networking and FTP server, there may be occasions that cannot transfer files. In this case, only IK-WB11A is able to make backup data in SD memory card. Go to Network/FTP Recording menu screen and set "Image Accumulation" function under "Conditions for the Image Accumulation Inside of the Camera" to "ON". (→ see page 102) If you set this function to "ON", the files will be transferred to FTP server by following the process described in 2) above.

When Alarm Goes OFF

Basically, the files are transferred in the order described below:

C (Post-Recoding images) \rightarrow B (An image of the moment alarm has generated) \rightarrow A (Pre-Recording images)

However, depending on conditions of FTP server and networking, or when another alarm has generated during the file transfer process, the camera will not necessarily follow the above transferring order.

Precedence of Recoding Functions

FTP Recording Function takes precedence over all other recording functions, such as Alarm/Normal (IK-WB11A only) recording functions. Function for recording images of last some seconds is always recording the images regardless of other functions.

- Even if the settings of "Alarm Recording" and "Normal Recording" (IK-WB11A only) are set to ON, these functions will be cancelled when the FTP recording function is set to ON.
- Even if the FTP recording function is set to ON, External Alarm and motion detections work normally and the alarm notifications and mailsending functions will work normally as well. However, Alarm/Normal (IK-WB11A only) images will not be recorded; therefore, the images will not be attached to the mails.
- All the Alarm List images and Record (Normal) List images (IK-WB11A only) accumulated on the network camera will be deleted when FTP recording function is set to ON.
- SD memory card will be formatted automatically and its contents will be deleted when FTP recording function is set to ON. (IK-WB11A only)
- You will not be able to use the Alarm List and Record List (IK-WB11A only) on the controller if you set the FTP recording function to ON.
- Even if the controller is already displayed on the screen and the alarm/ record (normal) images are in playback mode, the controller will go back to its start-up mode when FTP recording function is set to ON. The screen will turn to LIVE-mode screen from the PLAYBACK mode.

NOTE

• In some browsers, the controller may not go back to its original start-up mode and closes automatically instead.

Set up

- Configuring the Camera
- Setting Items
- Returning to the Default Settings
- Updating the Firmware

Configuring the Camera

Only the administrator can configure the network camera. For details on the settings the administrator can configure, refer to "Setting Items" (\rightarrow page 69). Enter the correct administrator information (administrator ID and password) to log in to the initial window for configuring settings. For details on administrator login, refer to "Administrator Login" (\rightarrow page 13).

The IP address 192.1.168.0.30 is used for the network camera in explanations hereafter.

Configuring General Settings

The following explains the procedure for configuring settings. The procedure for performing operations here and other settings are exactly the same. For details on configuring some of the main settings, refer to "Main Setting Items" (\rightarrow page 63). For details on all other settings, refer to "Setting Items" (\rightarrow page 90).



Perform administrator login (→ page 13)

 \cdot A window containing the Admin Menu appears.



In the left side of the window, click the toggle (+) of "Camera Settings", "Network Settings", "Security Settings", "Multi-Screen Mode Settings", "Administrator Functions", or "Log Management"



 \cdot The sub menus of the selected menu appear. If you selected "Camera Settings", the following sub menus appear.

TOSHIBA Network Camera - Settings for	r Administrator - Microsoft Internet Explorer
Elle Edit View Favorites Loois Help	
TOSHIBA Network Camera	
🕼 nwcam01 🛛 💷	
Admin Menu exit	
	Select the item to be set from the administrator settings menu.
Camera Settings	
1. <u>General</u> 2 PAN/THT	
3. <u>Alarm</u> 4. Privacy Mask	
5. Recording	
Network Settings	
Multi-Screen Mode Settings	
<u>Administrator Functions</u> I og Management	
Log Hanagement	

· If you click the toggle (+) of "Network Settings" or other menus while the menus are as above, the "Camera Settings" sub menus disappear and the sub menus of "Network Settings" or other menus appear.

Click a sub menu

 \cdot The settings appear in the right side of the window. (This image is the example of IK-WB11A)



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Configuring the Camera (Cont.)



Configure each setting

 For details on configuring settings, refer to "Main Setting Items" (→ page 63) or "Setting Items" (→ page 90).

.

After you have configured all the settings, click the save button

• The settings are registered in the network camera and a message appears to inform you that camera configuration is complete.



• If you want to configure other settings, click another toggle (+) or menu and select the submenu of the settings you want to configure. Then, repeat Steps 4 and 5 above.

Important -

- If the settings were configured incorrectly, they are not registered in the network camera and an input error message appears. Read the error message and reconfigure the settings accordingly.
- To register the settings in the network camera, be sure to click the <u>save</u> button. The settings are not registered in the network camera when:
 - \cdot You close the setting window before saving the changes.
 - You click another menu in the left side of the window and different settings appear.

- Clicking the <u>reset</u> button instead of clicking <u>save</u> button at Step 5 restores the previous configuration.
- You do not need to restart the network camera to reflect the settings you have configured in the setting menus.

Viewing • Listening and Operation

Set up

Main Setting Items

The following explains how to configure some of the main settings.

Configuring the IP Address

To connect to a network, it is necessary for the administrator to configure the network camera IP address.

There are two options for configuring the IP address.

- \cdot Obtaining an IP address automatically from the DHCP server
- · Entering an IP address manually

Obtaining an IP address automatically from the DHCP server The "DHCP" setting is configured to "ON" by default. This allows you to connect to a network that uses a DHCP server without any settings. If the DHCP server cannot be found, the camera automatically uses the own IP address 192.168.0.30.

OSHIBA Network Camera - Settings fo	or Administrator - Microsoft Internet	Explorer	_ 6
<u>E</u> dit ⊻iew Fgvantes <u>I</u> ools <u>H</u> elp			
SHIBA Network Camera		Network - Connection Settings	
Admin Manu	General Settings		
Admini Mend	Camera Name	nwcam01 (It means not a network host name.)	
	Auto Identification of Other Camera	C ON (other cameras in network identified automatically) C OFF	
Camera Settings Network Settings	DHCP	OFF (IP address data acquired automatically) (OFF (IP address information set manually)	
• • • • • • • •	The following settings are v	alid when "DHCP" is set to "OFF":	
2. <u>Wireless LAN</u> 3. Mail	IP Address	192 . 168 . 0 . 30	
Routing Table	Subnet Mask	255 , 255 , 255 , 0	
- DDNS FTP Recording	Default Gateway		
<u>Security Settings</u> Julti-Screen Display Settings	DNS Settings		
Administrator Functions	Primary DNS Server IP address		
	Secondary DNS Server IP address		
	HTTP Port Setting		
	HTTP Port Number	80 (Number from 1 to 65535 except under use.)	
	Camera ID		
	The camera ID is a uniform Camera ID	ID assigned to individual camera and cannot be changed. DD2230	
		reset save	
		M Internet	
سيحج العفيم خرمالي	in the second second	and Decident	

• Entering an IP address manually

 \cdot Enter an IP address manually if you do not want to use the DHCP server or the network does not use a DHCP server.

• If you use the DHCP server, the IP address changes from time to time. Therefore, the IP address you set last time may not be valid next time, and you may not able to access to the camera.

To be able to access the camera every time you use, you need to set fixed IP address (setting IP address manually) to the network camera. If you do not know the pre-assigned IP address, consult the relevant support center or refer to the relevant manuals of the network devices (router, hub, modem, etc.).

Configuring the Camera (Cont.)



Viewing • Listening and Operation

Others

In the left side of the window, click the toggle (+) of "Network Settings"

Perform administrator login (\rightarrow page 13) to open

· The sub menus appear.

the Admin menu



From the list of sub menus, click "General"

 \cdot The settings appear in the right side of the window.

Enter the camera name

		Network - Connection Settings	
wcam01 LIVE			
n Menu exit	General Settings		
	Camera Name	nwcam01	t name.)
	Auto Identification of Other Camera	CON (other cameras in network identified automatically) COFF	
nera Settings work Settings	DHCP	CON (IP address data acquired automatically) COFF (IP address information set manually)	
General	The following settings are va	alid when "DHCP" is set to "OFF":	
Wireless LAN Mail	IP Address	192 , 168 , 0 , 30	
Routing Table ARP Table	Subnet Mask	255 . 255 . 255 . 0	
DDNS FTP Recording	Default Gateway		
urity Settings	DNS Settings		
ninistrator Functions	Primary DNS Server IP address		
ig Management	Secondary DNS Server IP address		
	HTTP Port Setting		
	HTTP Port Number	80 (Number from 1 to 65535 except under use.)	
	Camera ID		
	The camera ID is a uniform	ID assigned to individual camera and cannot be changed.	
	Camera ID	002230	
		reset	

NOTE

• The camera name is displayed along with images in single-view mode or multi-view mode. If there are multiple cameras, enter a name that will make it easy to identify what the camera is monitoring.



Set "DHCP" to "OFF"

The default setting is "ON." When you will set your own IP address without using DHCP server, set "DHCP" to "OFF."

/iewing • Listening and Operation

6 Enter the IP address, subnet mask, and default gateway

Important

- If you do not know the subnet mask, consult the provider or relevant network system administration support center.
- You do not need to enter the default gateway if the network camera will not be accessed from another network. If you do need to enter a default gateway, consult your network system administration support center.



Click the save button

• The settings are registered.

- Clicking the <u>reset</u> button instead of clicking <u>save</u> button at Step 7 restores the previous configuration.
- The network camera has a feature (useful for multi view) to automatically detects and remember other cameras on the same network. If there are other cameras on the same network, it is recommended to set "Auto Identification of Other Cameras" to "ON" (→ page 96).
- For details on configuring multi view, refer to configuring "Multi-Screen Mode Settings" (→ page 69).
- You need to reboot the network camera if you change any settings of the camera's network setting connection. Be sure to click on the <u>reboot</u> button on the save confirmation page after clicking <u>save</u> button.
- When you try to reconnect to the network camera, be sure to confirm that the entered IP address and HTTP port number are new ones if you changed the IP address and HTTP port number.

Configuring the Camera (Cont.)

dress, refer to "Configuring the IP Address" (\rightarrow page 63).

To establish a wireless connection, it is necessary for the administrator to

configure the appropriate wireless LAN settings. The administrator also needs to configure the IP address. For details on configuring the IP ad-

Perform administrator login (\rightarrow page 13) to open

Configuring Settings for Wireless LAN

Introduction

Viewing • Listening and Operation

In the left side of the window, click the toggle (+) of "Network Settings"

· The sub menus appear.

the Admin menu



• The settings appear in the right side of the window.

le <u>E</u> dit ⊻iew Fgvorites <u>I</u> ools <u>H</u> elp			
OSHIBA Network Camera		Network - Wireless LAN Settings	
Admin Menu exit	COM Mode	adhoc Method	
	COM Channel	10 💌 ch.	
	ESS-ID (SSID, Group Name)	ikwb (Input ID with a maximum of 32 alphanumeric characters)	
Camera Settings	COM Speed	outo 💌 Mbps	
Network Settings	Encryption	OFF	
1. General 2. Wireless LAN	The following settings are	valid when "Encryption" is not set to "Off":	
3. Mail 4. Routing Table 5. ARP Table 6. DDNS 7. FTP Recording			
Security Settings Multi-Screen Display Settings Administrator Functions Log Management	WEP key	Odbit WEP Key : Io characters case at textadecimal digit Scharacters case at ascii text Zobit WEP Key : Zo characters case at ascii text I3 characters case at ascii text	
		reset save	
			t lobereat
	DA Natural C	90 () () 100 ()	U.M. C.C. are

Configure the communication mode

① Click \checkmark for the "COM Mode" setting in the right side of the window. ② Select an item from the pull-down menu.

· If you are going to connect the network camera to the network via a wireless broadband router or access point (AP), select "infrastructure." If you are going to connect the network camera directly to a personal computer, select "adhoc."

66

Others

Recording

Set up

Others

. Configure the communication channel

- (1) Click \checkmark for the "COM Channel" setting in the right side of the window.
- 2 Select an item from the pull-down menu.
 - · Channels 1 to 11 are available for use. If you are configuring the network camera to work in an existing wireless LAN environment. select the same channel.

NOTE

- If you cannot establish a satisfied wireless connection, try other channels and select the channel that enables the optimal connection.
- To have communication in adhoc method with the computer which cannot change the communication channel, start up the network camera in wireless LAN mode before turning on your computer.
- The network camera can communicate only on the configured channel of the camera.

Enter the ESS-ID

· If you are connecting the network camera to an existing wireless LAN, set the same ESS-ID as the existing wireless LAN environment. If you are configuring a new wireless LAN, make sure that you do not set the same ID as another existing wireless LAN.

Important -

 There are restrictions on the values you can enter. You can only enter up to 32 alphanumeric characters.

NOTE

 ESS-ID is sometimes simply expressed as SS-ID. SSID. or network group name. In this manual we use "ESS-ID". This setting is an ID for identifying the wireless group when multiple wireless LAN groups exist in the network environment

Configure the communication speed

- ① Click \checkmark for the "COM Speed" setting in the right side of the window.
- 2 Select an item from the pull-down menu.
 - · You can set "1.0." "2.0." "5.5." or "11" Mbps. or "auto." Be sure to select "auto" unless vou use special wireless LAN environment.

NOTE

 This setting determines the speed of the network camera communicating with other devices on the wireless LAN. The IEEE 802.11b standard supports the communication speeds of 1.0, 2.0, 5.5, and 11 Mbps. However, be sure to select "auto" unless you use special wireless LAN environment.

Configuring the Camera (Cont.)

Configure the WEP key

- ① Click \blacksquare for the "WEP Key" setting in the right side of the window.
- ^② Select an item from the pull-down menu.
 - •This setting determines the method used to encrypt data transferred during wireless communication. Typically, 64-bit and 128-bit WEP keys are used. (128-bit WEP sets tighter security)

 You can select either of the two WEP keys or select not to use an encryption key. If you are connecting the network camera to an existing wireless LAN that uses a WEP key, set the same WEP key to the network camera.

NOTE

- WEP setting is not mandatory. Do not perform the WEP setting if you are not using WEP with your current wireless LAN.
- When you use encryption with the WEP key for the network camera, select the items for "Encryption" and "WEP Key" correctly. There are rules for entering the WEP keys used for wireless data encryption. Enter a 10-byte (hexadecimal digits) or 5-byte (ASCII text) character string for the 64-bit WEP key, and a 26-byte (hexadecimal digits) or 13-byte (ASCII text) character string for the 128-bit WEP Key. Configure the WEP Key by referring tables below.
- Sometimes "64-bit WEP" is described as "40-bit WEP", in here, we use the term "64-bit WEP." This means that other wireless devices using 40-bit WEP are using the same level of security as and are compatible with devices that use 64-bit WEP.
- When you do not perform encryption of the data by WEP, your wireless communication could be intercepted easily by third party. By using WEP for your data encryption, it becomes very difficult to decode the data. Because of this, it is recommended to do WEP setting if you are using wireless communication.

WEP Key Setting

r			
	64bit WEP Key	128bit WEP Key	
ASCII text	Number of Characters: 5 characters Characters You Can Use: Alphanumeric characters (0 to 9, a to z, A to Z)	Number of Characters: 13 characters Characters You Can Use: Alphanumeric characters (0 to 9, a to z, A to Z)	
16 hexadecimal	Number of Characters: 10 characters Characters You Can Use: Alphanumeric characters (0 to 9, a to f, A to F)	Number of Characters: 26 characters Characters You Can Use: Alphanumeric characters (0 to 9, a to f, A to F)	

 $\ensuremath{\ensuremath{\mathbb{K}}}$ There is no distinction between capital letters and small letters.

WEP Key Setting (Example)

	64bit WEP Key	128bit WEP Key
ASCII text	nwcam	toshibaikwb01
16 hexadecimal	abcd1048ef	1234567890abcdef0987 654321

Introduction

Configuring Multi-Screen Mode Settings Selecting Multiple Cameras

The images of network cameras selected by this setting appear in multiview mode.

- 1) In the left side of the window, click the toggle (+) of "Multi-Screen Mode Settings", and then click the sub menu "Selecting Cameras"
 - \cdot The settings appear in the right side of the window.



- 2) Set "Multi-Screen Mode" to "ON"
- 3) From "Selection of Cameras for Multi-Screen Display," select cameras (check boxes)
- 4) Click the save button

 \cdot The settings are registered in the network cameras.

°° Configuring the Camera (Cont.)

- Clicking the <u>reset</u> button instead of clicking <u>save</u> button at Step 4) restores the previous configuration.
- When "Multi-Screen Mode" is set to "OFF," Multiview button will not be displayed and cannot switch to the multi-view mode screen.
- Even if you have checked other network cameras which have been autodetected by the main network camera, and if you could not communicate with these cameras for a while, images from these network cameras cannot be displayed on the Multi-View screen.
- Even if you are able to reconnect with these cameras, if these cameras are considered as not registered in the system, the selectin check marks may have been taken off. In this case, reconfirm whether the check is marked or not to the network camera.
- The auto-detection of other network cameras' registered contents will be cleared each time you turn on or off the camera. Along with this, selection check marks of Multi-View screen display will be cleared as well. Therefore, after you turn on, off or reboot the camera, make sure to confirm the selection check marks.
- All the manually registered information of the network camera will be preserved regardless of rebooting or turning on or off the power.

Others

Introduction

Others

Adding Multiple Cameras

The network camera has a feature to automatically detect other cameras on the same network. If you want to display images from network cameras, which are on other networks, in multi-view mode, register them on the "Multi-Screen Mode Settings" "Adding and Removing Cameras" screen.

1) In the left side of the window, click the toggle (+) of "Multi-Screen Mode Settings"

· The sub menus appear.

2) From the list of sub menus, click "Adding and Removing Cameras"

 \cdot The settings appear in the right side of the window.

OSHIBA Network Cam	LIVE		Multi	Screen Display - Adding and Removing (Cameras
Admin Menu	exit	List of R	egistered	Cameras	
		Select	No.	Domain Name, or IP Address	HTTP Port Number
		-	-	(My Camera) nwcam01 192.168.0.30	80
Camera Settings Network Settings		In order to Mu When screening	lti-Screen Di Ig cameras v	splay, please be sure to register "My Camera". ria the Internet, please register a domain name or a "Global" l	P address into all cameras.
Security Settings	Settings	M	1.	192.168.0.30 Please be sure to register "My Camera" here.	80
			2.		80
 Adding and Removin Selection of Cameras 	R Serveras		з.		80
Administrator Functio	ons		4.		80
Log Management			5.		80
			6.		80
			7.		80
			8.		80
			9.		80
		10.		80	
			11.		80
		12.		80	
		13.		80	
		-			20

3) Enter a domain name or an IP address

4) Enter the HTTP port number

5) Click the save button

 \cdot The settings are registered in the network cameras.

- Clicking the <u>reset</u> button instead of clicking <u>save</u> button at Step 5) restores the previous configuration.
- You can use any of the following procedures to confirm whether the network camera of an entered IP address has been registered.
 - \cdot In the left side of the window, click "Multi-Screen Mode Settings".
 - From the list of sub menus of "Multi-Screen Mode Settings", click "Selection of Cameras".

Configuring the Camera (Cont.)

Configuring External Alarm Settings

If you connect a sensor or other device to the alarm input terminal (\rightarrow page 116), an alarm will notify you when the sensor detects anything out of the ordinary. For example, if you connect a sensor attached to a door, an alarm can notify you when the door is opened or closed.

1) Perform administrator login (\rightarrow page 13)

· A window containing the Admin Menu appears.



2) In the left side of the window, click the toggle (+) of "Camera Settings"

· The sub menus appear.

TOSHIBA Network Camera - Settings for	Administrator - Microsoft Internet Explorer
<u>File Edit View Favorites Tools Help</u>	
TOSHIBA Network Camera	
😻 nwcam01 🛛 💷	
Admin Menu exit	
	Select the item to be set from the administrator settings menu.
E Camera Settings	
1. <u>General</u> 2. <u>PANTILT</u> 3. <u>Alarm</u> 4. <u>Privacy Mask</u> 5. <u>Recording</u>	
<u>Network Settings</u> <u>Security Settings</u> <u>Multi-Screen Mode Settings</u> Administrator Functions	
□ Log Management	
<u>د</u>	

ntroduction
3) From the list of sub menus, click "Alarm Settings"

 \cdot The settings appear in the right side of the window. (This image is the example of IK-WB11A)



4) Set "Function" of the "External Alarm" setting to "ON"

TOSHIBA Network Camera - Settings for .	Administrator - Microsoft Inte	ernet Explorer	_ 🗆 🗵
<u>E</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp			
TOSHIBA Network Camera			^
😻 nwcam01 💷		Camera - Alarm Settings	
Admin Menu exit	External Alarm		
	Tunction	• ON (external alarm detection conducted)	
	Fulction	COFF	
	The following settings ar	e valid when the external alarm function is set to "ON":	
Camera Settings	Input Type	Normal Opened (NO)	
1. General 2. <u>PAN/TILT</u> 3. <u>Alarm</u>	Associate to P/T Operation	OFF	
	The following settings are valid when "Associate to P/T Operation" is set to "Preset":		
5. Recording	Preset No.	1	
I Network Settings	Pagence Expertion	C ON 30 seconds	
E Security Settings	resume runchon	@ OFF	
Multi-Screen Mode Settings	0.00		
Administrator Functions	Motion Sensor		
Log Management	Function	 ON (motion detection conducted) 	
	1 GIONON	COFF	
_	The following settings ar	e valid when the motion sensor function is set to "ON":	
	Sensitivity	HIGH I	-

Introduction

°° Configuring the Camera (Cont.)

5) Configure each of the other settings

Input Type (alarm notification conditions)

This is the setting for external alarm input method. Set the conditions depending on kinds of sensor you are using.

Normal Opened (NO) : Non-Voltage point method. It opens the point (circuit) when nothing is happening (normal), and closes when alarm has generated.

Normal Closed (NC) : Non-Voltage point method. It closes the point (circuit) when nothing is happening (normal), and opens when alarm has generated.

* The default setting is "Normal Opened (NO)."

Associate to P/T Operation (camera operation when an external alarm went off)

- OFF : The lens will not move even if an alarm has generated.
- Preset : The lens moves to the preset position specified for "Preset No."
- Auto Patrol : The lens moves each preset positions in order, and after one lap, moves back to the position where before the Alarm has generated.

(Available Settings when "Preset" is Selected Above)

 Preset No. (number of the preset which shows the camera images when an external alarm has gone off)
 1 to 10

*For example, you can select the preset number of a lens position for showing the area around a sensor or other device attached to a door.

- Resume Function (returns the lens to the position where it was when the alarm went off)
 - ON : When a fixed period of time elapses after the lens moved in response to an alarm, the lens returns to the position where it was when the alarm went off.
 - OFF : After the lens moved in response to an alarm, the lens stays still at the position of the selected preset.
- Resume Time (period of time until the Resume function starts) 10, 30, 60 seconds

• The "Preset No.," "Resume Function," and "Resume Time" settings are only valid when "Preset" is selected for "Associate to P/T Operation."

Introduction

6) To finish configuring the alarm settings,

click the save button below the settings

· The changes are saved.

To restore the previous configuration,

click the reset button below the settings

· The changes are discarded.

To configure other alarm settings,

proceed to the next section

• For details on connecting alarm input components, refer to the respective manuals of the components.

Configuring Motion Sensor Settings (IK-WB11A)

If you set "Function" of the "Motion Sensor" to "ON," an alarm will notify you a change detected.

1) Set "Function" of the "Motion Sensor" setting to "ON"

🚈 TOSHIBA Network Camera - Settings for Administrator - Microsoft Internet Explorer 📃 🗖 🔀				
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp				
TOSHIBA Network Camera	The following settings are valid when "Associate to P/T Operation" is set to "Preset":			
🕼 nwcam01 🛛 💷	Preset No. 1			
	Resume CON 30 🗾 seconds			
Admin Menu exit	Function © OFF			
	Motion Sensor			
E Comero Settings	Function (motion detection conducted)			
	COFF			
1. <u>General</u> 2. <u>PAN/TILT</u>	The following settings are valid when the motion sensor function is set to "ON":			
3. Alami 4. Privacy Mask	Sensitivity HIGH 💌			
5. Recording	Size Large 💌			
Network Settings	Detection Range Click here to launch the settings window.			
Security Settings Multi-Screen Mode Settings	Associate to P/T Operation			
<u>Administrator Functions</u> Log Management	The following settings are valid when "Associate to P/T Operation" is set to "Preset":			
	Preset No. 1			
C Done	📒 Local intranet			

Configuring the Camera (Cont.)

2) Configure each of the other settings

Sensitivity (detection sensitivity level)

Configures sensitivity for changing brightness.

- HIGH : Generates an alarm upon detection even to the slightest change in brightness.
- MIDDLE : Sensitivity is at a level between HIGH and LOW.
- LOW : Generates an alarm upon detection of significant changes in brightness only.

* The default setting is "MIDDLE."

% If an alarm is detected frequently when there are no abnormalities, reduce the level of sensitivity.

Size (detection size)

Configures the ability to detect movement.

- Large : Generates an alarm upon detection even to the slightest movement. The camera can detect easily any movement.
- Medium : Detection size is at a size between "Large" and "Small".
- Small : Generates an alarm upon detection of significant movement only.

% If an alarm generates frequently even in normal occasion, change the setting to "Small."

• Detection range (range within which you can configure the motion sensor to work)

①When you click "Click here to launch the settings window", the range setting screen (8X8 squares) appears.



Set up

Paint out any square you want to set the sensor by clicking it
 To undo this action, click the square again.



Configuring the Camera (Cont.)

Available Settings when "Preset" is Selected

- Preset No. (number of the preset which images the camera shows when an external alarm has gone off)
 1 to 10
- Resume Function (returns the lens to the position where it was when the alarm went off)
 - ON : When a fixed period of time elapses after the lens moved in response to an alarm, the lens returns to the position where it was when the alarm went off.
 - OFF : After the lens moved in response to an alarm, the lens stays still at the position of the selected preset.
- Resume Time (period of time until the Resume function starts) 10, 30, 60 seconds

- The "Preset No.," "Resume Function," and "Resume Time" settings are only valid when "Preset" is selected for "Associate to P/T Operation."
- Detection range of the motion sensor is the range the camera is monitoring. If there were some movements in where out of the camera monitoring range, the movements cannot be detected.

3) To finish configuring the alarm settings,

click the save button below the settings

· The changes are saved.

To restore the previous configuration,

click the reset button below the settings

· The changes are discarded.

To configure other alarm settings,

proceed to the next section

Configuring Alarm Output Settings

The alarm output terminal (\rightarrow page 116) facilitates the use of a siren, buzzer, emergency light, or other device when an alarm goes off.

1) Set the alarm notification time for "Output Hold Time" of the "Alarm Output" setting

TOSHIBA Network Camera - Settings for File Edit View Eavorites Tools Help	or Administrator - Microsoft Internet Explorer
TOSHIBA Network Camera	Detection Range Click here to launch the settings window.
w nwcam01	Associate to P/T OFF
Admin Menu exit	The following settings are valid when "Associate to P/T Operation" is set to "Preset":
	Preset No. 1
<u>Camera Settings</u>	Resume CON 30 seconds Function COFF
1. <u>General</u> 2. <u>PAN/TILT</u> 3. <u>Alarm</u>	Alarm Output Set the continuous notification time to the external device when an alarm is
4. <u>privacy Mask</u> 5. <u>Recording</u>	Cutput Hold 5 seconds
Security Settings Multi-Screen Mode Settings Administrator Functions Log Management	reset save
E Done	

- \cdot This setting is only valid if a light or other component is connected to the alarm output terminal.
- \cdot Select a time from 1, 5, 10, 15, 30, and 60 seconds.

• A new alarm cannot be received while an alarm recording (sound) is playing.

2) To finish configuring the alarm,

click the save button below the settings

 \cdot The changes are saved.

To restore the previous configuration,

click the reset button below the settings

· The changes are discarded.

• For details on connecting alarm output components, refer to the respective manuals of the components.

Configuring the Camera (Cont.)

Configuring Mail Settings

Network cameras have a feature for sending mail.

- If you configure this feature, mail is sent when:
- \cdot An external alarm goes off.
- \cdot Motion is detected. (IK-WB11A)
- \cdot The internal battery runs out of power.
- \cdot The IP address is changed.

Configuring conditions for sending mail

In the left side of the window, click the toggle (+) of "Network Settings"

· The sub menus appear.

2) From the list of sub menus, click "Mail"

 \cdot The settings appear in the right side of the window.

TOSHIBA Network Camera - Settings for	Administrator - Microsoft Internet Explorer
<u>File Edit View</u> Favorites <u>T</u> ools <u>H</u> elp	
TOSHIBA Network Camera	Network - Mail Settings
Admin Menu exit Camera Settings Ortwork Settings Control Action Co	Server Settings Setter "Server Name" or "P Address" before inputting. SMP C Server name P address
<u> </u>	oena Mai When <u>▼</u>

3) Enter the IP address or server name (host name) of the SMTP

· Enter the SMTP server information specified by the provider.

iewing • Listening and Operation

NOTE

- Some providers verify users (POP before SMTP) by receiving mail. If you cannot send mail even if these items are correctly configured, enter the ID and password for verifying the IP address or server name (host name) of the POP3 server.
- POP3 is a protocol for receiving (retrieving) mail from the mailbox. However, these settings will not result in received mail, for example, being deleted because the network camera does not retrieve mail.
- The mail function of the network camera does not support "SMTP Auth".

4) Enter the administrator mail address

 \cdot Correctly enter the mail address specified by the provider.

The following explains how to configure settings related to when mail should be sent.

Configuring the conditions of sending mail when an external alarm goes off or motion is detected.

TOSHIBA Network Camera - Settings for a	Administrator - Microsoft Internet Explorer	_ 🗆 🗙
<u>Eile Edit ⊻iew Favorites ⊥ools Help</u>		
TOSHIBA Network Camera	Password (Confirm)	-
😻 nwcam01 🛛 💷	Administrator Mail Settings	
Admin Menu exit	Mail Address	
	Subject of Sent Messages	
Camera Settings	Conditions for Sending Mail When An External Alarm Goes Off	
Connect of settings Connect A Settings Connect AN Wireless LAN Mail Routing Table APC Table APC Table DDNS	Send Mai When An CON External COFF Alarm Goes Off	
Security Settings	The following settings are valid when "ON" is selected:	
<u>Multi-Screen Mode Settings</u> <u>Administrator Functions</u> <u>Log Management</u>	Message Body	×
	Attach Alarm Picture © OFF To Mai	
	Conditions for Sending Mail When Motion Is Detected	
4 X	Send Mal When CON COFF	-

1) Configure the "Conditions for Sending Mail When An External Alarm Goes Off" setting

 \cdot Set the sending of mail when an external alarm goes off to "ON" or "OFF."



• The default setting is "OFF."

o^{oo} Configuring the Camera (Cont.)

2) Enter the Message Body and configure the "Attach Alarm Picture To Mail" setting

- The text entered here becomes the body of messages. To the actual body of a message, the time/date when the alarm went off and the camera name are added to the text entered here.
- If "ON" is set for "Attach Alarm Picture To Mail," the image saved by the network camera, when an external alarm was detected, is attached to a message at the size specified for "Attached Picture Size."

- The attached image data is in a format that ordinary mail client software can read.
- When FTP Recording Function is set to ON, you cannot attach image(s) to a mail. However, the values you have set will be preserved.

Configure the "Conditions for Sending Mail When Motion Is Detected" setting

 \cdot Set the sending of mail when motion is detected to "ON" or "OFF."

NOTE

• The default setting is "OFF."

4) Enter the Message Body and configure the "Attach Motion Picture To Mail" setting

- \cdot The text entered here becomes the body of messages. To the actual body of a message, the time/date when a motion was detected and the camera name are added to the text entered here.
- If "ON" is set for "Attach Motion Picture To Mail," the image saved by the network camera, when motion was detected, is attached to a message at the size specified for "Attached Picture Size."

NOTE

- The attached image data is in a format that ordinary mail client software can read.
- When FTP Recording Function is set to ON, you cannot attach image(s) to a mail. However, the values you have set will be preserved.

5) Configure the "Attached Picture Size" setting

 $\bigcirc {\rm Click} ~ {\bf \forall}$ for the "Attached Picture Size" setting in the right side of the window

2 Select an item from the pull-down menu

 \cdot Set the alarm and detected motion image size.

Introduction

Set up

Others

The following explains how to configure settings related to sending mail when the camera detects that the internal battery has run out of power.

Configuring the conditions for sending mail when the internal battery runs out of power

The internal battery may be out of power when the network camera is first unpacked after purchase or has been left unused with the power turned off for a while. Note that the network camera will no longer indicate the current time because the time and date are reset to their initial values when the internal battery runs out of power.

*If the time is not set correctly, the recording/playing functions may not work right. Be sure to set correct time.

1) Configure the "Conditions for Send Mail When Internal Battery Runs Out Of Power" setting

 $\cdot Set$ the "Send Mail When Internal Battery Runs Out of Power" to "ON" or "OFF."

🚰 TOSHIBA Network Camera - Settings for A	udministrator - Microsoft Internet Explorer	_ 🗆 🗙
<u>File Edit View Favorites Tools Help</u>		10
TOSHIBA Network Camera	Send	
Admin Menu exit	When Internal CON Battery COFF Runs Out Of Power	
Camera Settings Network Settings . General . Winches LAN . Winches LAN . Mail	The following settings are valid when "ON" is selected: Message Body Body Message Body Body Body Body Body Body Body Body]

• The default setting is "ON."

2) Enter the message body

 \cdot The text entered here becomes the body of messages.

The following explains how to configure settings related to sending mail when the IP address is changed.

Configuring the Camera (Cont.)

Configuring the conditions for sending mail when the IP address is changed

If the network camera is set to obtain an IP address automatically from the DHCP server, the IP address is changed when the power of the network camera is turned off or on, or periodically for security reasons. You can configure the network camera to send mail to inform you that the IP address has been changed.

Configure the "Condition for Sending Mail When IP Address Is Changed" setting

· Set the "Send Mail When IP address Is Changed" to "ON" or "OFF." The default setting is "ON."

TOSHIBA Network Camera - Settings for Ad	ministrator - Microsoft Inte	rnet Explorer	_ 🗆 ×
<u>File E</u> dit <u>V</u> iew Favorites <u>I</u> ools <u>H</u> elp			
TOSHIBA Network Camera	Condition for Sendi	ing Mail When IP Address Is Changed	
w nwcam01	Send Mail When IP Address Is Changed	CON COFF	
Admin Menu exit	The following settings are	valid when "ON" is selected:	
Camera Settings Concerned Concerned Concerned Concerned	Message Body	It is transmitted by fixed form format. The IP Address is changed. New IP address, NNNN Subnetmark, NNNN Default Gateway, NNNN Mon, I7 Mar 2003 05 16 07pm Camera Name, Newcam01	

- Mail is not sent if the mail settings (SMTP server information and administrator mail address) (→ page 80) have not been configured.
- The following fixed information are also added to the body of messages.
 - \cdot The new IP address
 - · The subnet mask
 - · The default gateway
 - \cdot The time and date
 - · The camera name

• Configuring Mail Address Settings for Sending Mail

Enter mail addresses and select the conditions for sending mail.

1) Configure the "Address For Sending Mail" settings and "Address For Sending Mail (Copy)" settings

 $\cdot \text{Enter}$ mail addresses and click the boxes beside each address to select the conditions for which mail is sent.

2) Press the save button

· The settings are registered in the network cameras.

• After setting sending mail setting and clicking <u>save</u> button, you may try "test." It is recommended to try the test to check your mail settings.

Configuring Privacy Mask Settings

You can configure the masking of camera images. Places with masking set are painted out in black.

This is a convenient feature for not showing certain places in images. For example, it allows you to hide the number plates of cars when the camera is installed in a garage or other location.

1) Perform administrator login (\rightarrow page 13)

 \cdot A window containing the Admin Menu appears.

2) In the left side of the window, click the toggle(+) of "Camera Settings"

· The sub menus appear.

Configuring the Camera (Cont.)

3) From the list of sub menus, click "Privacy Mask"

 \cdot The settings appear in the right side of the window.

ile Edit View Favorites Iools Help FOSHIBA Network Camera	Camera - Privacy Mask Settin	gs
Admin Menu exit	Function CON (Specific places can be hide COFF Setup Range Click here to launch the settings win	len.) dow.
Camera Settings	reset	
Set "Function	" to "ON"	

TOSHIBA Network Camera - Settings for Administrator - Microsoft Internet Explorer				
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	<u>T</u> ools <u>H</u> elp			
TOSHIBA Network Ca.	mera		Camera - Drivary Mack Settinge	
🕼 nwcam01	LIVE		Cumera - Thoacy Mask Settings	
Admin Menu	exit	Function	ON (Specific places can be hidden.)	
		Setup Range	Click here to launch the settings window.	
Camera Settings	-		reset save	
1. <u>General</u> 2 PAN/TUT				
3. <u>Alarm</u> 4. <u>Privacy Mask</u>				
D. <u>Recording</u>	_			
	Þ			

5) Use the "Setup Range" setting to specify the mask range

 \cdot For details on how to specify a range for the mask, see the explanation for the "Detection Range" setting in "Configuring Motion Sensor Settings" (\rightarrow page 76).

6) Click the settings

· The changes are saved.

Introduction

Recording

Freeze Activity Settings

When in "Auto Patrol" mode, the "Freeze Activity Function" allows you to view a still image while the lens is moving.

When you set this function to "ON", the screen shows the regular motion images when the lens is at the preset positions, and shows a still image (an image right before the lens moves) when the lens is moving.

1) Perform administrator login (\rightarrow page 13)

· A window containing the Admin Menu appears.



Configuring the Camera (Cont.)

2) In the left side of the window, click the toggle (+) of "Camera Settings"

· The sub menus appear.

TOSHIBA Network Camera - Settings for	Administrator - Microsoft Internet Explorer
<u>Eile Edit View Favorites Tools Help</u>	· · · · · · · · · · · · · · · · · · ·
TOSHIBA Network Camera	
🐶 nwcam01 🛛 💷	
Admin Menu exit	
	Select the item to be set from the administrator settings menu.
Camera Settings	
1. <u>General</u> 2. <u>PAN/TILT</u> 3. <u>Alarm</u> 4. <u>Frivacy Mask</u> 5. <u>Recording</u>	
Network Settings Security Settings Multi-Screen Mode Settings Administrator Functions Log Management	
· ·	

3) From the list of sub menus, click "PAN/TILT Settings"

TOSHIBA Network Camera - Settings for a	Administrator - Micros	soft Internet Explorer	_ 🗆 ×
<u>F</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp			18
TOSHIBA Network Camera	1	Camera - PAN/TILT Settings	•
🕼 nwcam01 🛛 💷	1		
Admin Menu exit	P/T Operation Restrictions	none	
	Auto Patrol Stopping Time	5 💌 Min.	
	Scan Speed	FAST -	
■ <u>Camera Settings</u>	Power Boost Function	CENTER	
1. <u>General</u> 2. <u>PAN/TILT</u> 3. <u>Alarm</u>	Freeze Activity Function	 ○ ON (still picture mode set when P/T started) ○ OFF 	
 Privacy Mask Recording 		reset save	
			•

 \cdot The settings appear in the right side of the window.

Introduction

4) Set the "Freeze Activity Function" to "ON"

🖉 TOSHIBA Network Camera - Setting	s for Administrator - Micr	osoft Internet Explorer	_ 🗆 ×
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u>	elp		1
TOSHIBA Network Camera	3	Camera - PAN/TILT Settings	<u>*</u>
Admin Menu exit	P/T Operation Restrictions	none	
	Auto Patrol Stopping Time	5 💌 Min.	
	Scan Speed	FAST -	
<u>■ Camera Settings</u>	 Power Boost Function 	CENTER	
1. <u>General</u> 2. <u>PAN/TILT</u> 3. <u>Alarm</u>	Freeze Activity Function	• ON (still picture mode set when P/T started) • OFF	
4. <u>Privacy Mask</u> 5. <u>Recording</u>	<u>•</u>	reset save	- -

5) Set the "Auto Patrol Stopping Time" setting

- \cdot Select a time from 1, 2, 5, and 10 minutes.
- \cdot The period of time that the lens stops at the preset position is set.

6) Click the settings

TOSHIBA Network Camera - Settings	for Administrator - Microsoft Interi	net Explorer	
<u>Eile E</u> dit ⊻iew F <u>a</u> vorites <u>T</u> ools <u>H</u> e	dp		100 A
TOSHIBA Network Camera			
😻 nwcam01 🛛 💷		Camera - PAIN/IILI Settings	
Admin Menu exit	P/T Operation Restrictions	none	
	Auto Patrol Stopping Time	5 Min.	
	Scan Speed	FAST •	
Camera Settings	Power Boost Function	CENTER	
1. <u>General</u> 2. PAN/TILT	Freeze Activity Function	 C ON (still picture mode set when P/T started) C OFF 	
3. Alarm 4. Privacy Mask 5. Recording		reset save	
Network Settings Security Settings Multi-Screen Mode Settings Administrator Functions	•		
Done Done			📑 Local intranet 🛛 🖉

· The changes are saved.

Setting Items

Camera Settings

1. General Settings

Item	IK-WB01A	IK-WB11A
Camera Picture Size	160 x 120 320 x 240 640 x 480 320 x 240 ZOOM 160 x 120 ZOOM	1280 x 960 800 x 600 640 x 480 320 x 240 160 x 120
Picture Quality	HIGH/MIDDLE/LOW	HIGH/MIDDLE/LOW
Frame Rate	HIGH/MIDDLE/LOW	HIGH/MIDDLE/LOW
Installation Environment	Desktop/Wall, Ceiling	Desktop/Wall, Ceiling
AE Compensation	-20 to 20	-20 to 20
Auto B/W	ON/OFF	ON/OFF
Shutter Speed	_	AES,1/120,1/60,1/30, 1/20,1/15,1/8,1/4,1/2,1, 2,4
Auto Slow Shutter*1	_	ON/OFF
Auto Sensitivity Boost	_	ON/OFF
Sound Sensitivity	HIGH/LOW/STOP	HIGH/MIDDLE/LOW/STOP

*1: Auto-Slow shutter functions when the "shutter speed" is set "AES".

• Camera Picture Size :

Configures camera picture size. The bigger the size, the resolutions becomes higher.

IK-WB11A

Possible settings	: 1280 × 960 / 800 × 600 / 640 × 480 /
	320×240/160×120

IK-WB01A

Possible settings	:640 × 480 / 320 × 240 / 160 × 120 /
	320 × 240 ZOOM / 160 × 120 ZOOM

The 320 \times 240 Z00M \diagup 160 \times 120 Z00M settings enlarge the center part of an image $~(640 \times 480)$ and display it on the screen.

Picture Quality :

Configures the quality of camera images. When the picture sizes are the same, the file sizes change according to the each picture quality level.

HIGH : Better picture quality, but the file size becomes bigger.

MIDDLE : Standard quality and file size.

LOW : Lower picture quality, but the file size becomes smaller.

- The picture quality and the file size change depending on the conditions of an object (splendor, resolution, movement).
- The smaller the file size, the network system will have less influence. As a result, frame rate (next page) may become higher.

iewing • Listening and Operation

Frame Rate :

IK-WB11A

Configures the frame rate of the image data sending to the network (forwarding rate).

HIGH : Higher frame rate.

MIDDLE : Standard frame rate.

LOW : Lower frame rate.

Actual frame rate changes depending on image size and setting environment (use of network cable, performance of a PC, etc...). The maximum frame rate for HIGH setting are:

30 fps (320 × 240, 160 × 120)

7.5 fps (1280 × 960, 800 × 600, 640 × 480)

The numbers in parentheses are the sizes of camera images.

* The frame rate may get lowered when the slow shutter function and SD memory card are in use.

IK-WB01A

Configures the frame rate of the camera. The higher the frame rate, the renewal speed of the single-view or multi-view mode screen becomes faster.

The lower the frame rate, sensitivity of the camera heightens.

HIGH	: 15 fps
MIDDLE	: 10 fps
LOW	: 5 fps

fps : frame / second

Actual frame rate changes depending on picture size and setting environment (use of network cable, performance of a PC, etc...). The maximum frame rate for HIGH setting are:

HIGH	: 15fps (320 × 240 Z00M, 160 × 120 Z00M)
	7.5fps (640 × 480, 320 × 240, 160 × 120)
MIDDLE	: 10fps (320 × 240 Z00M, 160 × 120 Z00M)
	5fps (640 × 480, 320 × 240, 160 × 120)
LOW	: 5fps (320 × 240 Z00M, 160 × 120 Z00M)
	2.5fps (640 × 480, 320 × 240, 160 × 120)

The numbers in parentheses are the setting sizes of camera images.

NOTE

- When using the camera at night, or installing the camera where the camera cannot get enough light, try setting lower frame rate to heighten the sensitivity of the camera.(IK-WB01A)
- When monitoring something very bright, like sunlight, you might see stripe patterns (called "smear") on the screen. If something like this happens, setting frame rate to "LOW" might help.

Set up

Setting Items (Cont.)

Installation Environment:

Turning the image (180°) depending on the installation environment.

Desktop/Wall : Will not rotate the image when installing the camera on a desk or a wall.

Ceiling : Rotates the image 180° when hanging the camera from a ceiling.

%The images will not rotate when capture an image with 1 shot function. (IK-WB01A)

• AE Compensation :

The camera adjusts the brightness of the image automatically. Adjust to the best splendor for each conditions of an object.

You can adjust the brightness between the range of -20 to 20. The bigger the number, picture becomes lighter, and the smaller the number, it becomes darker.

• Auto B/W :

Configures Auto B/W function. Auto B/W is the function that when monitored object becomes darker, it turns the image into black and white picture and helps the sensitivity of the camera to have better image. When the image turns to black and white, the image may have some noise.

ON : Auto B/W takes action.

OFF : Auto B/W does not take action.

• Shutter Speed (IK-WB11A):

Configures the speed of electronic shutter. When setting the Shutter Speed to "AES(Automatic Electronic Shutter)," the camera automatically sets the shutter speed depending on the brightness of an object.

Possible settings: AES, 1/120, 1/60, 1/30, 1/20, 1/15, 1/8, 1/4, 1/2, 1, 2, 4

NOTE

- When the shutter speed is set "AES," it automatically switches ND filter ON/OFF.
- The images may become rough when switching ND filter ON/OFF.

When you set the shutter speed other than "AES," the ND filter*1 will not be ON automatically. Because of this, smear*2 may shows up on the screen more often.

*1 ND filter : A filter which controls light intensity.

*² Smear : A phenomena that stripe patterns show up on the screen from top to bottom toward the bright light.

Auto Slow Shutter(IK-WB11A):

Configures Auto Slow Shutter. When setting auto slow shutter to "ON" and the shutter speed to "AES," the slow shutter functions depending on the brightness of an object.

ON : The slow shutter takes action.

OFF : The slow shutter does not take action.

Auto Sensitivity Boost (IK-WB11A):

Configures Auto Sensitivity Boost function. Auto sensitivity boost function boosts up the sensitivity of the camera when an object gets darker. The screen may have more noises and resolution may get lowered when the image gets darker.

ON : The auto sensitivity boost takes action.

OFF : The auto sensitivity boost does not take action.

Sound Sensitivity:

Configures the sensitivity of microphone (sound). Change the settings depending on installation environment.

<u>IK-WB11A</u>

HIGH	: Heightens the sensitivity of sound input.
MIDDLE	: Standard sound input sensitivity.
LOW	: Lowers the sensitivity of sound input.
STOP	: Disables sound function.

IK-WB01A

HIGH	: Heightens the sensitivity of a microphone (sound).
LOW	: Lowers the sensitivity of a microphone (sound).
STOP	: Disables sound function.

2. PAN/TILT Settings

Item	IK-WB01A	IK-WB11A
P/T Operation Restrictions	None/Administrator Only	None/Administrator Only
Auto Patrol Stopping Time	1, 2, 5, 10 minutes	1, 2, 5, 10 minutes
Scan Speed	FAST/SLOW	FAST/SLOW
Power Boost	CENTER, HOME, AUTO	CENTER, HOME, AUTO
Function	SCAN, AUTO PATROL	SCAN, AUTO PATROL
Freeze Activity	ON/OFF	ON/OFF
Function		

oo Setting Items (Cont.)

3. Alarm Settings

1) External Alarm

Item	IK-WB01A	IK-WB11A
Function	ON/OFF	ON/OFF
Input Type	Normal Closed (NC)/	Normal Closed (NC)/
	Normal Opened (NO)	Normal Opened (NO)
Associate to P/T	OFF, Preset,Auto Patrol	OFF, Preset,Auto Patrol
Operation		
Preset No.	1 to 10	1 to 10
Resume Function	ON/OFF	ON/OFF
Resume Time	10, 30, 60 seconds	10, 30, 60 seconds

2) Motion Sensor

Item	IK-WB01A	IK-WB11A
Function	—	ON/OFF
Sensitivity	—	HIGH, MIDDLE, LOW
Size	—	LARGE, MEDIUM, SMALL
Detection Range	—	Set from screen ranges of
		8X8 squares
Associate to P/T	—	OFF, Preset, Auto Patrol
Operation		
Preset No	—	1 to 10
Resume Function	_	ON/OFF
Resume Time	_	10, 30, 60 seconds

* Depending on what the camera is monitoring, the sensor may not work properly.

3) Alarm Output

Item	IK-WB01A	IK-WB11A
Output Hold Time	1, 5, 10, 15, 30, 60 seconds	1, 5, 10, 15, 30, 60 seconds

4. Privacy Mask Settings

Item	IK-WB01A	IK-WB11A
Function	—	ON/OFF
Setup Range	_	Set from screen ranges of 8 x 8 squares

** This is an easy image masking function. Depending on angles/movement of PAN/TILT function, the masking positions may shift.

Recording

* The camera records only one image of the moment alarm has generated when "Pre-Recording" and "Post-Recording" are set to "O frame."

IK-WB11A

0. 3. 5. 10 frames

0. 3. 5. 10. 20 frames

1^{**2} 2 5 10 seconds

ON/OFF

ON/OFF

*²You can record Alarm(s) in 1-second cycle when picture size is set to 160x120. 320x240 or 640x480.

2) Normal Recording (Only Possible when SD Memory Card Inserted)

IK-WB01A

0. 3. 5. 10 frames

0. 3. 5. 10. 20 frames

1. 2. 5. 10 seconds

ON/OFF

Item	IK-WB01A	IK-WB11A
Function	—	ON/OFF
Recording Cycle*	—	1, 2, 5, 10, 30, 60, 120,
		180 seconds
Timer Association	—	ON/OFF

* Image can be recorded with 1 second-recording cycle when picture sizes are 160×120 , 320×240 , 640×480 : 2 seconds-recorded cycle when picture sizes are 800 × 600 . 1280 × 960.

- * The frame rate (renewal speed) may become slower when recording images.
- * Actual Recording Cycle may differ from your setting when the slow shutter is in use.
- 3) Timer Recording

5. Recording Settings 1) Alarm Recording

External Alarm

Motion Sensor

Pre-Recording

Post-Recording

Recording Cycle*1

Item

Item	IK-WB01A	IK-WB11A
Time Setting	—	Start: 0 to 23
		Stop: 0 to 23

4) Overwriting

Item	IK-WB01A	IK-WB11A
Function	_	ON/OFF

- * If you'd like to use this function, use SD memory card bigger than 128MB. Otherwise, it may shorten the life of SD memory card.
- * When playing the recorded images from SD memory card, you cannot record any images on the card.
- * If an SD memory card is used to record both alarm recordings and normal recordings, thirty percent of the total storage space is used for alarm recordings and the rest is used for normal recordings.
- * The camera will not record any images when deleting images in the SD memory card.
- * The frame rate may become slower when deleting images in the SD memory card
- * When either Alarm recording or Normal recording becomes full even if there are some more spaces in the SD memory card, the camera notifies you that the card is "full."

Setting Items (Cont.)

5) SD Memory Card Formatting

Item	IK-WB01A	IK-WB11A
Function	_	Button Selection

*When SD memory card formatting completes, the completion notice will be shown. When you perform formatting, make sure to check the setting screen until the notice is shown.

Network Settings

- 1. Network Connection Settings
 - 1) General Settings

Item	IK-WB01A	IK-WB11A
Camera Name	Enter up to 32 single-byte	Enter up to 32 single-byte
	characters	characters
Auto Identification of	ON/OFF	ON/OFF
Other Cameras		
DHCP	ON/OFF	ON/OFF
IP Address	Enter the static IP	Enter the static IP
	address	address
Subnet Mask	Enter the subnet mask	Enter the subnet mask
Default Gateway	Enter the default gateway	Enter the default gateway

2) DNS Settings

Item	IK-WB01A	IK-WB11A
Primary DNS Server	Enter the IP address	Enter the IP address
IP Address		
Secondary DNS	Enter the IP address	Enter the IP address
Server IP Address		

3) HTTP Port Setting

Item	IK-WB01A	IK-WB11A
HTTP Port No.	Enter the port number	Enter the port number

4) Camera ID

Item	IK-WB01A	IK-WB11A
Camera ID	Cannot be changed	Cannot be changed

Recording

Introduction

2. Wireless LAN Settings

Item	IK-WB01A	IK-WB11A
COM Mode	Infrastructure, adhoc	Infrastructure, adhoc
COM Channel	1 to 11	1 to 11
ESS-ID	Enter up to 32 single-byte characters	Enter up to 32 single-byte characters
COM Speed	Auto, 11, 5.5, 2.0, 1.0 Mbps	Auto, 11, 5.5, 2.0, 1.0 Mbps
Encryption	Off, 64 bit WEP, 128 bit WEP	Off, 64 bit WEP, 128 bit WEP
WEP Key Type	16 hexadecimal, ASCII text	16 hexadecimal, ASCII text
WEP Key	64 bit: 10 characters	64 bit: 10 characters
	(hexadecimal digits),	(hexadecimal digits),
	5 characters (ASCII text)	5 characters (ASCII text)
	128 bit: 26 characters	128 bit: 26 characters
	(hexadecimal digits),	(hexadecimal digits),
	13 characters (ASCII text)	13 characters (ASCII text)

3. Mail Settings

1) Server Settings

Item	IK-WB01A	IK-WB11A
SMTP Server Name	Enter the server name	Enter the server name
SMTP IP Address	Enter the IP address	Enter the IP address
POP3 Server Name	Enter the server name	Enter the server name
POP3 IP Address	Enter the IP address	Enter the IP address

2) Verification Settings

Item	IK-WB01A	IK-WB11A
User ID	Enter the user ID	Enter the user ID
Password	Enter the password	Enter the password
Password (Confirm)	Reenter the password	Reenter the password

3) Administrator Mail Settings

Item	IK-WB01A	IK-WB11A
Mail Address	Enter the mail address	Enter the mail address
Subject of Sent	Enter up to 128 single-	Enter up to 128 single-
Messages	byte characters	byte characters

4) Conditions for Sending Mail when An External Alarm Goes Off

Item	IK-WB01A	IK-WB11A
Send Mail When An	ON/OFF	ON/OFF
External Alarm Goes Off		
Message Body	Enter up to 256 single-	Enter up to 256 single-
	byte characters	byte characters
Attach Alarm Picture	ON/OFF	ON/OFF
To Mail		

Set up

Setting Items (Cont.)

5) Conditions for Sending Mail When Motion is Detected

Item	IK-WB01A	IK-WB11A
Conditions for Sending Mail	—	ON/OFF
When Motion is Detected		
Message Body	_	Enter up to 256 single-
		byte characters
Attach Motion	_	ON/OFF
Picture To Mail		

6) Attached Picture Size Setting

Item	IK-WB01A	IK-WB11A
Attached Picture	640 x 480	1280 x 960
Size	320 x 240	800 x 600
	160 x 120	640 x 480
		320 x 240
		160 x 120

- * When FTP Recording Function is set to ON, you cannot attach image(s) to a mail.
- 7) Conditions for Sending Mail when Internal Battery Runs Out Of Power

Item	IK-WB01A	IK-WB11A
Send Mail When Internal	ON/OFF	ON/OFF
Battery Runs out		
Out Of Power	Enter up to 256 single-	Enter up to 256 single-
Message Body	byte characters	byte characters

8) Conditions for Sending Mail When IP Address Is Changed

Item	IK-WB01A	IK-WB11A
Send Mail When IP	ON/OFF	ON/OFF
Address is Changed		
Message Body	The IP address is	The IP address is
	changed.	changed.
	New IP address: ***	New IP address: ***
	Subnet mask: ***	Subnet mask: ***
	Default gateway: ***	Default gateway: ***
	Day, month, year, time	Day, month, year, time
	Camera Name; ***	Camera Name; ***

9) Addresses for Sending Mail (To)

Item	IK-WB01A	IK-WB11A
Input fields for up to	\cdot Enter the mail addresses	\cdot Enter the mail addresses
10 addresses (To)	\cdot For each address, you can	\cdot For each address, you can
	configure individually	configure individually
	whether mail is sent when:	whether mail is sent when:
	an external alarm goes off,	an external alarm goes off,
	the internal battery runs	the internal battery runs
	out of power, or the IP	out of power, or the IP
	address is changed	address is changed

10) Addresses for Sending Mail (Cc)

Item	IK-WB01A	IK-WB11A
Input fields for up to	· Enter mail addresses	· Enter mail addresses
10 addresses (Cc)	\cdot For each address, you can	\cdot For each address, you can
	configure individually	configure individually
	whether mail is sent when:	whether mail is sent when:
	an external alarm goes off,	an external alarm goes off,
	the internal battery runs	the internal battery runs
	out of power, or the IP	out of power, or the IP
	address is changed	address is changed

4. Routing Table Settings

Item	IK-WB01A	IK-WB11A
Static Routing Table	Configure the following	Configure the following
Settings	settings for up to ten	settings for up to ten
	entries: destination	entries: destination
	address, subnet mask,	address, subnet mask,
	gateway address, and	gateway address, and
	metric	metric

5. ARP Table Settings

1) Static ARP Table Settings

Item	IK-WB01A	IK-WB11A
Static ARP Table	Configure the following	Configure the following
Settings	settings for up to ten	settings for up to ten
	entries: IP address, MAC	entries: IP address, MAC
	address	address

Introduction

oo Setting Items (Cont.)

2) Browse ARP Table

Item	IK-WB01A	IK-WB11A
ARP Table	List of ARP displayed	List of ARP displayed

* Clicking the clear button deletes the contents of the ARP table.

6. DDNS Settings

Item	IK-WB01A	IK-WB11A
DDNS	ON/OFF	ON/OFF
DDNS User Name	Enter the user name	Enter the user name
DDNS Password	Enter the password	Enter the password
DDNS Server	Enter the server name	Enter the server name

7. FTP Recording Settings

1) Image Recording by FTP

Item	IK-WB01A	IK-WB11A
Image Recording by	Periodic Recording by	Periodic recording by
FTP	Schedule/ When Alarm	Schedule/ When Alarm
	goes off/ OFF	goes off (Selection of
		External Alarm and Motion
		Detection)/ OFF

2) FTP Server Setup

ltem	IK-WB01A	IK-WB11A
Server Name	Enter the server name	Enter the server name
IP Address	Enter the IP address	Enter the IP address
User ID	Enter the User ID	Enter the User ID
Password	Enter the password	Enter the password
Password	Reenter the password	Reenter the password
(Confirm)		
FTP Port Number	21	21
FTP Mode	PORT/PASV	PORT/PASV
Connection to FTP	Stay connected/	Stay connected/
Server	Re-connect	Re-connect

3) Conditions for Image Recording by FTP

Item	IK-WB01A	IK-WB11A
Booting up Advanced	Periodic Recording by	Periodic Recording by
Setting Window	Schedule/ When Alarm	Schedule/ When Alarm
	goes off	goes off

Periodic Recording by Schedule

ltem	IK-WB01A	IK-WB11A
Monday	OFF/All Day/Timer	OFF/All Day/Timer
	Pattern 1/Timer Pattern 2	Pattern 1/Timer Pattern 2
Tuesday	OFF/All Day/Timer	OFF/All Day/Timer
	Pattern 1/Timer Pattern 2	Pattern 1/Timer Pattern 2
Wednesday	OFF/All Day/Timer	OFF/All Day/Timer
	Pattern 1/Timer Pattern 2	Pattern 1/Timer Pattern 2
Thursday	OFF/All Day/Timer	OFF/All Day/Timer
	Pattern 1/Timer Pattern 2	Pattern 1/Timer Pattern 2
Friday	OFF/All Day/Timer	OFF/All Day/Timer
	Pattern 1/Timer Pattern 2	Pattern 1/Timer Pattern 2
Saturday	OFF/All Day/Timer	OFF/All Day/Timer
	Pattern 1/Timer Pattern 2	Pattern 1/Timer Pattern 2
Sunday	OFF/All Day/Timer	OFF/All Day/Timer
	Pattern 1/Timer Pattern 2	Pattern 1/Timer Pattern 2
Timer Pattern 1	Starting Time :	Starting Time :
	O am toll pm	0 am toll pm
	Ending Time :	Ending Time :
	O am toll pm	O am toll pm
Timer Pattern 2	Starting Time :	Starting Time :
	O am toll pm	0 am toll pm
	Ending Time :	Ending Time :
	O am toll pm	O am toll pm
Recording Cycle	1,2,5,10,15,30,60,120,	1,2,5,10,15,30,60,120,
	300,600,900,1500,	300,600,900,1500,
	3000 second(s)	3000 second(s)
Recording File	Enter up to	Enter up to
Name	16 characters*	16 characters*
Recording	Enter up to	Enter up to
Directory on the	128 characters	128 characters
FTP Server		

* You cannot enter characters, $\setminus / : ; , " | ? * <>$.

When Alarm goes off

Item	IK-WB01A	IK-WB11A
Pre-Recording	0,1,2,5,10,30 frames,	0,1,2,5,10,30 frames,
	Max.	Max.
Post-Recording	Enter frames between	Enter frames between
	0 to 1000	0 to 1000
Recording Cycle	0.06, 0.1, 0.2, 0.5, 1, 2,	0.03, 0.06, 0.1, 0.2, 0.5,
	5,10 seconds	1, 2, 5,10 seconds
Recording File	Enter up to	Enter up to
Name	16 characters*	16 characters*
Recording	Enter up to	Enter up to
Directory on the	128 characters	128 characters
FTP Server		

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* You cannot enter characters, \/:;,"|?*<>.

Setting Items (Cont.)

4) Conditions for the Image Accumulation Inside of the Camera

Item	IK-WB01A	IK-WB11A
Image Accumulation	—	ON/OFF
Image Accumulation	—	1 [*] , 2, 5, 10, 15, 30, 60,
Cycle	_	120, 300, 600, 900,
	_	1800, 3600 seconds
Overwriting	_	ON/OFF

- * You can record images in 1-second cycle when picture size is set to 160x120, 320x240 or 640x480.
- * Alarm Recording and Normal Recording (IK-WB11A) functions will be invalidated.
- * You cannot attach images to E-mail(s).
- * You cannot use the controller's Alarm List and Record List (IK-WB11A) functions.
- * All the saved images of the Alarm List and the Record List (IK-WB11A) on the camera will be deleted.
- * SD Memory Card will be formatted automatically and all the data in the card will be deleted. (IK-WB11A)

Security Settings

1. Access Restriction Settings

Item	IK-WB01A	IK-WB11A
Restrict Access by	ON/OFF	ON/OFF
IP Address		
IP Address	Enter up to 20 IP	Enter up to 20 IP
	addresses	addresses

2. Filtering Settings

Item	IK-WB01A	IK-WB11A
Filtering by MAC	ON/OFF	ON/OFF
Address		
MAC Address	Enter up to 20 MAC	Enter up to 20 MAC
	addresses	addresses

3. User Restriction Settings

Item	IK-WB01A	IK-WB11A
User Restrictions	ON/OFF	ON/OFF
Login ID	Enter the login ID	Enter the login ID
Password	Enter the password	Enter the password
Password (Confirm)	Reenter the password	Reenter the password

Multi-screen Mode Settings

1. Adding and Removing Cameras

Item	IK-WB01A	IK-WB11A
List of Registered	Enter domain name (or the	Enter domain name (or the
Cameras	IP address) and HTTP	IP address) and HTTP
	port number	port number

2. Selecting Cameras

1) Switching to Multi-Screen Mode Setting

Item	IK-WB01A	IK-WB11A
Multi-Screen Mode	ON/OFF	ON/OFF

2) Selection of Cameras for Multi-screen Display

Item	IK-WB01A	IK-WB11A
Selection of Cameras	Select cameras that were registered	Select cameras that were registered
for Multi-screen	by searching automatically or by	by searching automatically or by
Display	using the administrator function for	using the administrator function for
	adding cameras	adding cameras

Administrator Functions

1. Changing the Password

Item	IK-WB01A	IK-WB11A
Current Login ID	Enter the current login ID	Enter the current login ID
Current Password	Enter the current password	Enter the current password
New Login ID	Enter the new login ID	Enter the new login ID
New Password	Enter the new password	Enter the new password
New Password	Reenter the password	Reenter the password
(Confirm)		

2. Setting the Time

1) Time Zone

Item	IK-WB01A	IK-WB11A
Time Zone	GMT-12:00~GMT+12:00	GMT-12:00~GMT+12:00

2) Changing the Time Manually

Item	IK-WB01A	IK-WB11A	
Date	Select a date from the	Select a date from the	
	date boxes	date boxes	
Time	Select a time from the	Select a time from the	
	time boxes	time boxes	

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and Operation

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Setting Items (Cont.)

3) Changing the Time Using an NTP Server Setting

Item	IK-WB01A	IK-WB11A
Function	ON/OFF	ON/OFF
NTP Server Host	Enter the host name	Enter the host name
Name		
IP Address for an	Enter the IP address	Enter the IP address
NTP Server		

- 4) Quick Time Setting
- 5) Daylight saving setting

Item	IK-WB01A	IK-WB11A
Daylight saving	Valid, Invalid	Valid, Invalid

** The camera will not record normal images between 1:00AM to 2:00AM (Summer Time) on the last Sunday of October. However, it will record normal images between 1:00AM to 2:00AM (regular time) on the last Sunday of October only if the Normal Recording function is set to "ON".

* You cannot set the time (between 2:00AM to 3:00AM on the first Sunday of April.) manually if the Daylight saving is set to "valid."

3. Firmware Update

Item	IK-WB01A	IK-WB11A
File Name	Download the firmware.	Download the firmware.
	Then, select the file by	Then, select the file by
	entering the file path or	entering the file path or
	browsing	browsing

Log Management

1. Forwarding Settings

ltem	IK-WB01A	IK-WB11A
Forward Log to	ON/OFF	ON/OFF
Another Server		
Name of Destination	Enter the server name	Enter the server name
Server		
IP Address of	Enter the IP address	Enter the IP address
Destination Server		

2. Browse and Delete Settings

Item	IK-WB01A	IK-WB11A
Log List	The list of logs is displayed	The list of logs is displayed

* Clicking the clear button deletes the logs.

Returning to the Default Settings

Follow the procedure below to return to the default settings.

- Return to the defaults settings by using a thin, pointed object to press the reset button, shown in the figure on page 14, 15 in Basic User's Guide, for at least 5 seconds.
 - \cdot The settings return to the defaults.
 - \cdot The following shows the default settings.

NOTE

• Pressing the reset button for less than a second switches ON/OFF of the video output. This function, the video output, is only for checking images on the screen when installing the camera.

At this moment, the camera stops image recordings and sending images and sound to the network.

Returning to the Default Settings (Cont.)

Default Settings Camera Settings

Item		IK-WB01A	IK-WB11A
General Settings			
Camera Picture Size		640X480	640X480
Picture Quality		MIDDLE	MIDDLE
Frame Rate		HIGH	HIGH
Installation Enviror	nment	Desktop/Wall	Desktop/Wall
AE Compensation		0	0
Auto B/W		OFF	OFF
Shutter Speed		—	AES
Auto Slow Shutter		—	OFF
Auto Sensitivity Bo	post	—	OFF
Sound Sensitivity		HIGH	MIDDLE
Pan/Tilt Settings			
P/T Operation Res	strictions	None	None
Auto Patrol Stoppi	ng Time	5 minutes	5 minutes
Scan Speed		FAST	FAST
Power Boost Func	tion	CENTER	CENTER
Freeze Activity Fur	nction	OFF	OFF
Alarm Settings			
External Alarm	Function	OFF	OFF
	Input Type	Normal Open (NO)	Normal Open (NO)
	Associate to P/T Operation	OFF	OFF
	Preset No.	1 (This setting is only valid when "Associate	1 (This setting is only valid when 'Associate
		to P/T operation' is set to "Preset")	to P/T operation" is set to "Preset")
	Resume Function	OFF	OFF
	Resume Time	30 seconds	30 seconds
Motion Sensor	Function	—	OFF
	Sensitivity	—	LOW
	Size	—	Large
	Detection Range	—	All OFF
	Associate to P/T Operation	—	OFF
	Preset No.	_	1 (This setting is only valid when 'Associate
			to P/T operation" is set to "Preset")
	Resume Function	—	OFF
	Resume Time	_	30 seconds

Item		IK-WB01A	IK-WB11A
Alarm Output	Output Hold Time	5 seconds	5 seconds
Privacy Mask Sett	ings		
Function		—	OFF
Setup Range		_	All OFF
Recording Function	n Settings		
Alarm Recording	External Alarm	OFF	OFF
	Motion Sensor	—	OFF
	Pre-Recording	10 frames	10 frames
	Post-Recording	10 frames	10 frames
	Recording Cycle	2 seconds	2 seconds
Normal Recording	Function	—	OFF
	Recording Cycle	—	60 seconds
	Timer Association	—	OFF
Time Recording	Time Setting	—	Start: 8 O'clock, Stop: 17 O'clock
Over Writing	Function	—	OFF
SD Memory Card Formatting		—	Click on the Format
			button to format.

Network Settings

Item		IK-WB01A	IK-WB11A	
Network Connection				
General Settings	Camera Name	nwcam01	nwcam01	
	Auto Identification of Other Cameras	OFF	OFF	
	DHCP	ON	ON	
	IP Address	192.168.0.30 (This setting is only	192.168.0.30 (This setting is only	
		valid when "DHCP" is set to "OFF")	valid when "DHCP" is set to "OFF")	
	Subnet Mask	255.255.255.0 (This setting is only	255.255.255.0 (This setting is only	
		valid when "DHCP" is set to "OFF")	valid when "DHCP" is set to "OFF")	
	Default Gateway			
DNS Settings	Primary DNS			
	Server IP Address			
	Secondary DNS			
	Server IP Address			
Http Port Setting.	Http Port No.	80	80	
Camera ID	Camera ID	Each product has different number.	Each product has different number.	
Wireless LAN Sett	ings			
Communication Mo	ode	adhoc	adhoc	
Communication Ch	annel	10	10	
ESS-ID		ikwb	ikwb	
Communication Speed		Auto	Auto	
Encryption		Off	Off	
WEP Key		ASCII text (This setting is only valid when	ASCII text (This setting is only valid when	
		"Encryption" is not set to "Off")	"Encryption" is not set to "Off")	

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Returning to the Default Settings (Cont.)

ltom			IK-WB11A
Mail Cattinga			IN-WDI IA
Renver Settings			
Jerver Jettings			
	DOD2 Server Nome		
Varification	FOFS IF Addless		
Settings	Password (Confirm)		
Administrator Mail			
Administrator Mail	Mail Address		
Settings	Subject of Sent Messages		
Conditions for	Send Mall When an		UFF
Sending Mails	External Alarm Goes Uff	Estantial Alama Datastian	Estand Alama Data ation
when an External	Message Body	External Alarm Detection	External Alarm Detection
Alarm Goes Off	Attach Alarm		OFF
	Picture to Mail		
Conditions for	Conditions for Sending Mail	_	OFF
Sending Mail	when Motion is Detected		
when Motion is	Message Body	—	Motion Detection
Detected	Attach Motion	_	OFF
	Picture to Mail		
Attached Picture Size Setting	Attached Picture Size	640X480	640X480
Conditions for	Send Mail when Internal	ON	ON
Sending Mail	Battery Runs Out of Power		
when Internal	Message Body	The internal battery of a network	The internal battery of a network
Battery Runs Out		camera is off. Since time may have	camera is off. Since time may have
of Power		shifted, please carry out administrator	shifted, please carry out administrator
		login and perform time doubling	login and perform time doubling
Condition for	Send Mail when IP	ON	ON
Sending Mail	Address is Changed		
when IP Address	Message Body	The IP address is changed.	The IP address is changed.
is Changed		New IP address: ***	New IP address: ***
		Subnet mask: ***	Subnet mask: ***
		Default gateway: ***	Default gateway: ***
		Year, month, and day	Year, month, and day
		Camera name: ***	Camera name: ***
Addresses for	Input fields for up		
Sending Mail	to 10 addresses		
	(To)		
	Input fields for up		
	to 10 addresses		
	(Cc)		

Introduction

Viewing • Listening and Operation
Item		IK-WB01A	IK-WB11A
Routing Table Set	tings	•	
Destination Address			
Subnet Mask			
Gateway Address			
Metric		1	1
ARP Table Setting	S		
IP Address			
MAC Address			
Static ARP Table S	Settings	Brows ARP table	Brows ARP table
Browse ARP Table	1	This changes depending	This changes depending
		on communication status	on communication status
DDNS Settings			
Use DDNS		OFF	OFF
DDNS User Name			
DDNS Password			
DDNS Server		www.netcam.zaantek.net	www.netcam.zaantek.net
FTP Recording Set	ttings		
Image Recording Image Recording		OFF	OFF
by FTP	by FTP		
FTP Server Setup	FTP Server		
	IP Address		
	User ID		
	Password		
Password (Confirm)			
FTP Port Number		21	21
	FTP Mode	PORT	PORT
	Connection to FTP Server	Re-connect	Re-connect

Returning to the Default Settings (Cont.)

Item		IK-WB01A	IK-WB11A
Conditions for	Monday	OFF	OFF
Image Recording	Tuesday	OFF	OFF
by FTP	Wednesday	OFF	OFF
(Periodic Recording	Thursday	OFF	OFF
by Schedule)	Friday	OFF	OFF
	Saturday	OFF	OFF
	Sunday	OFF	OFF
	Timer Pattern 1	Start: 8am	Start: 8am
		Stop: 5pm	Stop: 5pm
	Timer Pattern 2	Start: 8am	Start: 8am
		Stop: 5pm	Stop: 5pm
	Recording Cycle	1 second	1 second
	Recording File Name		
	Recording Directory		
	on the FTP Server		
Conditions for	Pre-Recording	10 frames	10 frames
Image Recording	Post-Recording	100 frames	100 frames
by FTP	Recording Cycle	1 second	1 second
(When Alarm goes	Recording File Name		
off)	Recording Directory		
	on the FTP Server		
Conditions for the	Image Accumulation	—	OFF
Image Accumulation	Image Accumulation	—	60 seconds
Inside of the Camera	Cycle		
	Over Writing	—	OFF

Security Settings

Item	IK-WB01A	IK-WB11A
Access Restriction Settings		
Restrict Access by IP Address	OFF	OFF
IP Address		
Filtering Settings		
Filtering by MAC Address	OFF	OFF
MAC Address		
User Restriction Settings		
User Restrictions	OFF	OFF
Login ID	guest	guest
Password	guest	guest
Password (Confirm)	guest	guest

Introduction

Viewing • Listening and Operation

Recording

Multi-screen Mode Settings

Item	IK-WB01A	IK-WB11A
Adding and Removing Cameras		
Camera Name Entry		
Selection of Cameras		
Switching to Multi-screen Display Settings	OFF	OFF
Selection of Cameras for Multi-screen Display		

Administrator Functions

Item		IK-WB01A	IK-WB11A
Changing the Password			
Current Login ID			
Current Password			
New Login ID			
New Password			
New Password (Co	onfirm)		
Setting the Time			
Time Zone		GMT-12:00~GMT+12:00	GMT-12:00~GMT+12:00
Changing the	Date	The date currently set	The date currently set
Time Manually	Time	The time currently set	The time currently set
Changing the	Function	OFF	OFF
Time Using an	NTP Server		
NTP Server Setting	Host Name		
	IP Address for		
	an NTP Server		
Daylight Saving Setting		valid	valid
Firmware Update			
File Name			

Log Management

Item	IK-WB01A	IK-WB11A
Forwarding Settings		
Forward Log to Another Server	OFF	OFF
Name of Destination Server		
IP Address of Destination Server		
Browse and Delete Settings		
Log List	This changes depending on	This changes depending on
	camera operation status	camera operation status

Introduction

,... Updating the Firmware

Follow the procedure below to update the firmware.

Initial Procedure

• Create a folder in which to save the latest firmware.

Access the following Toshiba Web page via the Internet.

URL: http://www.toshiba.com/taisisd

Download the latest firmware according to the explanation on the Web page.

1 Perform administrator login

·For details on how to login, refer to page 13.

In the Admin menu, click the toggle (+) of Administrator Functions

.

· The sub menus appear.



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roshiba Network Camera	Administrator Function - Start Updating the Firmware
Admin Menu exit File N	Browse
Camera Settings	Current Version 202-200-201-111
Network Settings Security Settings Multi-Screen Display Settings Administrator Functions	The client shall take full responsibility for updating the firmware.
Changing the Password Setting the Time Firmvare Update	STOP all camera operations while the firmware is being updated.
Log Management	DO NOT turn off the camera's power
	while the firmware is being updated. The camera restarts automatically once firmware updating is successful completed.
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tati ⊕ 3 @ 2 * (€)TOSHBA New DTE	w.c
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 \cdot The name of the selected file appears in the screen shown in Step 3.

Updating the Firmware (Cont.)



6

Click UPDATE in the screen shown in Step 3

- \cdot The firmware update begins.
- After a while, the firmware update finishes and the camera restarts automatically.

. . . .

Important

- Updating the firmware is the responsibility of the customer.
- The camera stops moving during the firmware update.
- Do not turn off the power of the camera during the firmware updating. It causes failure in updating firmware.

Others

- Alarm Terminals
- Glossary (Index)
- Errors and Messages
- Before Calling Service Personnel...
- Specifications
- Appearance Diagram (IK-WB01A)
- Appearance Diagram (IK-WB11A)

Alarm Terminals

You can connect a variety of sensors to the camera by using alarm terminals. See following table for functions of each terminal.

Name	Function	Description
ALARM IN	Alarm Input	 Inputs External Alarm signal. You can choose the type of input signal: Normal Opened (NO) or Normal Closed (NC). Connect a sensor or other devices to the camera.
ALARM OUT	Alarm Output	 Outputs open corrector. Max.DC 24V, 50mA. Output holding time follows the those of Alarm Settings/Alarm Output. (→page 94)
GND	GND	GND for a signal



Connecting External Alarm Devices to the Alarm Input/Output Terminals

- Be sure to connect cables of external alarm devices before connecting AC adaptor cable and LAN cable to the camera.
- When you place IK-WB11A outside, be sure to waterproof the devices and cables just like the power cord and LAN cable by using conduit pipes or the like.



Example Circuit Connection



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Set up

Others

Glossary (Index)

* BUG: Basic User's Guide

Number

A	
AC adaptor	9
Accessories	4
Access restriction settings 1	02
Access Point	66
A device which connects PCs and wireless devices to each other in the wireless environment, and perform common files through wireless connection.	
Adhoc methodBUG Adhoc method is one of the components of wireless LAN networking. Used when networking without access point or a wireless router.	25
Administrator	12
Admin menu	14
AE compensation	92
Compensation for Automatic	
Exposure of the camera.	
ALARM IN/OUT	
(Alarm input/output terminal) 1	16
Alarm output holding time	94
Alarm list	31
ARP table	99
ARP is a shortened form of Address Resolution Protocol. It is the table to calculate MAC address from IP address on the TCP/IP protocol.	
ASCII Text	68
ASCII(American Standard Code for Information Interchange)	
Attaching picture to mail	82
Auto B/W	92
Auto Patrol	22
The camera can register max of 10 presets of the lens directions. This function patrols these preset positions in fixed time intervals.	

Auto sensitivity boost	93
Auto Slow Shutter	93

В

Before calling service personnel	128
Browser	13
Software to view WEB screens.	

There are browser of $\mathsf{Microsoft}^{\circledast}\mathsf{'s}$ Internet $\mathsf{Explorer}^{\mathsf{TM}}$ and

Netscape™ Communications's Netscape™Navigator.

С

Camera ID
Camera searching application
"Camera Finder" BUG34
Camera name 15, 19
Changing password
(administrator)BUG39
COM channel 67
When dividing usable frequency band in wireless LAN communication, you can have individual communication. Each divided frequency band is called channel. (11 channels in total)
COM speed 67
The product supports 10/100Mbps when using wired LAN. When using wireless LAN, the product supports 11/5.5/2/1Mbps which standardized by IEEE802.11b, and automatically decides communication speed.
ConnectionBUG24-26
Controller 21,40
Camera controlling browser is called controller. Administrator's controller and user's controller are very different in functions. Administrator controller has basic, preset, alarm list, and recording (IK-WB11A only) controllers, but these are easily switch to one another with one touch.
Crossover cable BUG24
One of the Ethernet cables made to connect 2 PCs without using hub or router.

Introduction

Set up

DDNS 100 (Dynamic Domain Name System) 110 This is the technique to overwrite the information of DNS (Domain Name System) server dynamically and forwarding data which are needed to renew information of DNS server, and reduce overhead of the network. If this combines with DHCP (Dynamic Host Configuration Protocol), it is possible to assign IP address and host name right away as the host on the LAN changes. 65 Default gateway 65 Network devices cannot communicate directly with devices in other networks. In this case, communication becomes possible by using devices like router. 65 DHCP	DC IN (Power input terminal) BUG	15	Encryption (WEP)	68
(Dynamic Domain Name System) IEEE802.11b as standard technique. There are 2 methods using 64-bit and 128-bit data. Name System) server dynamically and forward only different informations between DNS servers. Because of this, it enables to reduce forwarding data which are needed to renew information of DNS server, and reduce overhead of the network. If this combines with DHCP (Dynamic Host Configuration Protocol), it is possible to assign IP address in other networks, you set the sending destination to that router. DHCP BUG14, 15 Default gateway 65 Network devices cannot communicate directly with devices in other networks, you set the sending destination to that router. DHCP 63 Dynamic Host Configuration Protocol) 63 Dynamic Host Configuration Protocol to assign IP address dynamically to each client on TCP/IP network. DHCP server controls information of IP address, gateway address, domain name and subnet mask and can assign these to client. 63 DNS IP address is composed of list of numbers, and is hard to manage. Thus we use domain name which consists of alphabet and some symbols as alias to operate computers. This system, to correspond the IP address and the domain name, is called DNS. 96 Download 112 Download	DDNS	00	Adopted encryption method by	
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on TCP/IP network. DHCP server 48 controls information of IP address, 63 gateway address, domain name 48 and subnet mask and can assign 63 these to client. 96 DNS 96 (Domain Name System) 96 IP address is composed of list of 96 numbers, and is hard to manage. 139 Thus we use domain name which 139 consists of alphabet and some 139 symbols as alias to operate 112 Download 112 Taking and saving data from a device 112	address dynamically to each client		Freeze activity	87
 (File transfer Protocol) A protocol to transfer file(s) to other computers. The network camera equips both Active and Passive modes, and also supports Firewall. (Domain Name System) (P address is composed of list of numbers, and is hard to manage. Thus we use domain name which consists of alphabet and some symbols as alias to operate computers. This system, to correspond the IP address and the domain name, is called DNS. Download. Taking and saving data from a device 	on ICP/IP network. DHCP server		FTP	48
A protocol to transfer file(s) to other computers. The network camera equips both Active and Passive modes, and also supports Firewall. (Domain Name System) IP address is composed of list of numbers, and is hard to manage. Thus we use domain name which consists of alphabet and some symbols as alias to operate computers. This system, to correspond the IP address and the domain name, is called DNS. Download	gateway address, domain name		(File transfer Protocol)	
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numbers, and is hard to manage. Thus we use domain name which consists of alphabet and some symbols as alias to operate computers. This system, to correspond the IP address and the domain name, is called DNS. Download	IP address is composed of list of		F-value I	39
Thus we use domain name which consists of alphabet and some symbols as alias to operate computers. This system, to correspond the IP address and the domain name, is called DNS. Download	numbers, and is hard to manage.		The value to indicate brightness.	
consists of alphabet and some symbols as alias to operate computers. This system, to correspond the IP address and the domain name, is called DNS. Download	Thus we use domain name which		highter	
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Download	domain name is called DNS		Hub	63
Taking and saving data from a device in 10Base-T/100Base-TX network.	Download	10	Wire gathering device used	
Taking and saving data include device	Luwi IIUdu I	ΙC	in10Base-T/100Base-TX network.	
in remote place by using network	i aking anu saving data from a device		Build up a network by connecting	
are various patter by doing network. aevices around a nub radially. There	in tempte place by daing network.		are various ports like Sport Aport	

Е

Glossary (Index)(Cont.)

IEEE802.11b	67
IEEE(Institute of Electrical and Electronics Engineers)	
International standard gauge of wireless LAN by IEEE. It enables wireless communication without having complicated wiring by using direct spectrum diffusion method with communication speed of 11Mbps/2.4GHz range(max.)	
Image magnification 16, Infrastructure method	20 66
Infrastructure method is one of the components of wireless LAN networking. Construct one network by unifying wired network and wireless network through access point and/or wireless router	
InstallationBUG16,	18
Installation Environment	92
Configures installation environment of the product.	
IP address	63

All devices communicate with IP must have IP addresses. Devices connected to the Internet must have only one global IP address in the world. IP address can be divided into network ID and host ID. and depending on the values of network ID. it also can be divided into class A. B and C.

J

JAVA™2 13, 37

Object-oriented language program developed by Sun Microsystems, Inc. of the United States. The program has the function of that automatically downloads and starts up programs from web server despite the differences of hardware or OS.

Compare to JAVA™. JAVA™2 has improved performance, stability, security and correlation. The network camera uses JAVA™2 for displaving images and outputting sound on Internet Explore[™] and Netscape[™] Navigator.

JPEG 22. 41

(Joint Photographic Experts Group) Standard gauge for compression of colored still image by ITU-TS (International Telecommunication Union: ex-CCITT) and ISO (International Organization for Standardization). It can compress a still image between 1/10 to 1/ 100 of size.



LANBUG24, 25	5
(Local Area Network)	
Computer networking in small area.	
Lens coverBUG14, 15	5
LIVE	
Images which the camera is projecting is called LIVE. When LIVE icon is displayed at the lower part of the screen, it's displaying LIVE images. See PLAYBACK	
Login	7
Log management 104	1

M

MAC Address	2
(Media Access Control Address)	
Assigned individual code for each	
network card. Ethernet sends and	
this code.	
Mail settings)
Motion sensor	ō
Moving an image to the center 16, 20)
Multi-screen mode 103	3
Multi-view mode 18, 39	9
Ν	
Network BUG24, 25	ō
PCs and other devices are	
connected to each other for	
information exchange via cables.	

public lines and/or radio.	
Networking settings	96
ND(Neutral Density)switch 1	39
With the installed ND filter, outdoor	
and indoor monitoring is made	
possible by adjusting light intensity.	

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Returning to the default settings . 105 Reset button 105

Server which provides accurate date and time from network.	Resume function74 RNCP
OS	 Protocol for mutual communication. Because of this protocol, the cameras can identify each other. The camera searching application, Camera Finder, also uses this
Playback	4 Routing table
The camera can play recorded images. This function is called playback. You can control the recorded images with administrator controller easily."PLAYBACK" icon will be displayed when playing	Table for addressed network, which host and router are controlling, and the network interface and router to communicate with.
recorded images, and you can distinguish it from live images. See LIVE	S Scan
Playing recorded images	horizontal direction. Also called horizontal patrol function. The lens stops after one lap.
Protocol needed to receive e-mail on the Internet and Intranet. Client uses this when receiving e-mail from the mail server, and it has attesting function. Some mail servers use this function to send mail with SMTP. (POP3 before SMTP)	Screw holes for a tripod /stand 4 SD memory card
Port forwarding BUG2	6 Sending mail when external
Port Number	6 alarm goes off
Power Boost function9Power cord9Privacy mask8Preset2Protocol13	 (Simple Mail Transfer Protocol) Protocol for sending e-mail on the Internet and Intranet. Used when exchanging e-mail between servers or when client sends mail to the server.
P/T operation restriction	3 Sound sensitivity settings
Rear cover	4 Straight-through Cable

Normal Opened/Closed		74
NTP server	1	04
(Natwork Time Protocol)		

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Glossarv (Index)(Cont.)

	(,
Subnet mask	Wire clamp BUG22 Wired LAN BUG24 Wireless LAN BUG25 LAN(Local Area Network)which does not need wiring. It constructs a network by using infrared or laser in small areas. Wireless router BUG25, 26 Device which relays data on a network to other network is called router. It decides by itself to which route to choose to forward the data by looking at IP address of network device. Wireless router has wireless LAN communication function in addition to these features. X XDSL BUG26 ADSL technique has been invented to have high-speed data communication by using a pair of copper wire in the analogue telephone line. Belated techniques
Control Protocol) and UDP (User Datagram Protocol). FTP, SMTP and other applications use TCP/IP.	telephone line. Helated techniques derived from ADSL are called xDSL. This is a device to connect these to the Internet.
Timer recording	Z
U Updating firmware	Zoom in/Zoom out 23
V	
Video outputBUG15	
Wall bracket	
WEP	
(Wired Equivalent Privacy) Encryption. Standard encryption method in IEEE802.11b.Even if someone intruded to your computer and try to read the data, it makes	

ired LAN	BUG24
ireless LAN	BUG25
LAN(Local Area Network) not need wiring. It co network by using infrare small areas.)which does nstructs a d or laser in
ireless router	BUG25, 26



		Z		
Zoom in	/Zoom	out	 	. 23

perform the encryption.

Set up

Others

Errors and Messages

Followings are the explanations and trouble shootings for each error messages. The code numbers are needed when asking for a help to the Customer Service. By knowing the code number, the Customer Service can give you a proper advice and help.

- Network Related
- \cdot Web Related
- Others
- \cdot Other Messages (Informational Messages)

Network Related Messages

TCP/IP OS

CODE	Message	Cause	How to Manage
1001000	No Interruption from Camera in the last one minute.	The main unit of the camera may be in trouble.	Turn the power ON and OFF.
2001011	File System was automatically formatted by error detection.	There is an error(s) in the File System.	Formatted automatically.
2001022	SD memory card error.	 SD memory card has been damaged. Using unsupported SD memory card. 	 Use undamaged and supported SD memory card. Format your SD memory card with your PC.
2000023	SD memory card is full.	• SD memory card is full.	 Use new one, or delete unnecessary data. Overwrite the old data in the card by setting "Overwriting" function "ON". (Admin Menu→Camera Settings→Overwriting→ Function→ON)

Errors and Messages(Cont.)

DHCP Client

CODE	Message	Cause	How to Manage
2011001	No response from DHCP server.	 Network Camera is not connected to the LAN properly. The DHCP server is not turned ON, or there is no DHCP server on the network even though "DHCP" setting is set to "ON". The camera is not on the same network segment with DHCP server. 	 Make sure that the Network Camera and the LAN cable are correctly connected to the network. Make sure that the DHCP server is turned on. If you set the "DHCP" setting to "OFF," it means that you are not using the DHCP Server. In that case, make sure to enter correct IP address and other information in the setting menu.
2011002	Couldn't get default gateway address from DHCP server.	 Couldn't get necessary information from the DHCP server. 	 Re-check the DHCP server settings.

FTP Client

CODE	Message	Cause	How to Manage
2041001	FTP couldn't connect to server.	 The server is down. Trouble with the connection line. The FTP information is not set properly. 	Configure FTP Recording Settings. (→ page 100)
2041002	FTP couldn't send recording data.	 The server is down. Trouble with the connection line. The FTP information is not set properly. 	Configure FTP Recording Settings. (→ page 100)

SMTP Client

CODE	Message	Cause	How to Manage
2061001	Couldn't send mail.	 Network Camera and the LAN are not connected properly. SMTP server and POP3 information are wrong. Account information settings (ID, password) for POP3 are wrong. 	Re-do the "Mail" settings. (→page 80)

DDNS Related

CODE	Message	Cause	How to Manage
2111001	Failed to resolve DDNS server name.	 DDNS server information is wrong. 	Enter the correct information on "DDNS" settings.
2111002	Failed to connect to DDNS server.	 DDNS server information setting (→page 100) is wrong. Network Camera and the LAN are not connected properly. Using unsupported DDNS service. 	Enter the correct information on "DDNS" settings.
2111003	Failed to update DDNS database.	 DDNS server information setting (→page 100) is wrong. Network Camera and the LAN are not connected properly. Using unsupported DDNS service. 	Enter the correct information on "DDNS" settings.

°° Errors and Messages(Cont.)

WEB Related Messages

CODE	Message	Cause	How to Manage
3001603	F/W update failed.	 Tried to update wrong firmware. Firmware file is damaged. 	 Make sure that the firmware is certainly for your IK-WB01A or IK- WB11A. Make sure that the version and the size of your firmware and the one on the TOSHIBA website are the same. If they don't match, download the matched firmware.

Others

CODE	Message	Cause	How to Manage
4000001	Battery is empty.	 The internal battery of the camera has run out of power. 	 The internal battery is rechargeable. Even if the power is turned off for a long period of time, it will be recharged when the power is turned on again. If it's not rechargeable anymore or usable time is getting shorter, ask your dealer and change the battery.

Other Messages (Informational Messages)

2000000 Reboting 2000010 Reset to factory settings. 2000010 File System start. 2000012 File System start. 2000012 File System was formatted. 2000012 SD memory card was ejected. 2000012 Wireless communication was started. 2000012 Wireless communication was started. 20100011 LAN communication was started. 20100011 Paddress was changed by DHCP server response. 2050001 Time was synchronized with NTP server. 2110004 DDNS database updated. 3000101 Camera basic settings were updated. 3000102 Camera anotion-sensor settings were updated. 3000103 Camera notion-sensor settings were updated. 3000104 Camera notion-sensor settings were updated. 3000105 Camera notion-sensor settings were updated. 3000106 Camera notion-sensor settings were updated. 3000201 Network settings were updated. 3000202 Wireless network settings were updated. 3000202 Wireless network settings were updated. 3000202 Wireless was updated. 3000202 Mark t	CODE	Message	Itro
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3000602 F/W update was successful. 3000701 Syslog transfer settings were updated. 3000702 Syslog was cleared.	3000601	F/W update was started.	
3000701 Syslog transfer settings were updated. 3000702 Syslog was cleared.	3000602	F/W update was successful.	
3000702 Syslog was cleared.	3000701	Svslog transfer settings were updated.	
	3000702	Syslog was cleared.	

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Before Calling Service Personnel...

Symptom	Cause	How to Manage	LAN Cor Wired	nection Wireless
There is no IP address of your network	The power of the camera is not turned on.	●Turn on the power.	0	0
The Camera Finder's Network Camera List. (Part 1)	LAN cable is not connected.	 Connect the LAN cable of the camera to a hub or router in the right way. Be sure to turn on the power of the hub and router. 	0	
	The order of connecting LAN cable and turning on the power of the camera is not right.	 If you turn on the camera before connecting the LAN cable, the camera perceives it as wireless LAN mode. Connect the LAN cable to the hub or router first and then, turn on the camera again. **Be sure to turn on the power of the hub and router. 	0	
	The order of connecting LAN cable and turning on the power of the camera is not right.	If you connect the LAN cable to the powered on hub or router first, the camera perceives it as wired LAN mode. Even if you disconnect the cable after the camera started as the wired, it will not turn to wireless mode. In this case, turn on the power of the camera again when disconnecting the LAN cable.		0
	LAN cable is not connected to the PC.	 Connect the LAN cable to the PC in the right way. 	0	
	 Wireless LAN setting is not right. 	•Confirm that the wireless LAN setting of the camera and your wireless LAN environment are the same.		0
	●IP address of the PC is not configured.	●Configure the IP address of your PC correctly. (→ Basic User's Guide page 27)	0	0
Can't connect the camera and the wireless LAN.	 There may be other wireless devices near your PC or the camera. 	 The network camera uses 2.4GHz radio range. If you have microwave near the PC or the camera, or if you are using something like Bluetooth™, it would be difficult to have good wireless connection. Try setting other wireless channels which has better 		0

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Symptom	Cause	How to Manage	LAN Con Wired	nection Wireless
There is no IP address of your network camera on The Camera Finder' s Network Camera List. (Part 2)	 Setting of adhoc or infrastructure method is different from actual wireless environment. 	 Check the wireless connection mode. When connecting your PC and the network camera directly in wireless connection mode, set the network camera in adhoc mode. (→ page 97) When connecting your PC and the network camera via wireless router or access point (AP), set the network camera in infrastructure mode. (→ page 97) * The network camera is set in adhoc mode in default. 	Wiled	
Cannot display a browser from Camera Finder.	Installed directory of browser is wrong.	 Assign the directory where you are going to install the browser. Start Camera Finder and go to "View"/ "Customize"/"Browser Selection." 	0	0
The message, "The page cannot be displayed," shows up, and	 The IP addresses of the camera and your PC are wrong. 	 Set the correct IP address of the network camera. Set the correct IP address of your PC. 	0	0
cannot login to the camera even if you start Camera Finder.	HTTP port number is wrong.	 Usually the network camera uses "80" for the HTTP port number. If you set the number other than 80, enter the number registered as the HTTP port number in Camera Finder. When entering the IP address of the network camera directly to the browser, assign the port number after <:> like the example below. http://192.168.0.30:88/admin.htm 	0	0
	Proxy has set to the browser.	•When proxy is set to the browser, sometimes you may not able to login. Change the setting which will not via the IP address of the network camera from the proxy of the browser, or the setting of host name which will not via proxy.		

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Before Calling Service Personnel... (Cont.)

Symptom	Cause	How to Manage	LAN Cor	inection
Cannot login to the camera even though entering the IP address of the camera directly to the browser, and "The page cannot be displayed" shows up.	See "There is no IP addre The Camera Finder's Net message, 'The page car cannot login to the came	ess of your network camera on work Camera List. (Part 2)," or "The not be displayed," shows up, and era even if you start Camera Finder."	Wired	Wireless
Error message shows up when trying to login	Entering wrong login ID and password.	 Enter right login ID and password. * The default login ID is "root," and the password is "ikwb." 	0	0
	CapsLock of the PC is ON.	 The camera discriminates capital letter and lower-case letter. Enter your right login ID and password. 	0	0
	•Logged out in wrong way last time (exit from the admin menu by clicking X button).	•The camera keeps the last login information for 5 minutes. Try to login again 5 minutes later or restart the camera by turning On and OFF the power.	0	0
	The single or multi- view screen is still displayed.	The camera keeps login information even after you logged out if the single or multi-view screen is still displayed. Close the screen and try login procedure one more time.	0	0
	•There is an another PC which is performing administrator login.	 An administrator login to the camera is valid from only one PC. Log out from the other PC and try again. 	0	0
	●You forget your login ID and the password.	●You need to reset the camera. Remember that if you perform reset procedure of the camera, all the settings you have made will be deleted and the camera goes back to its default settings.	0	0

Symptom	Cause	How to Manage	LAN Co Wired	nection Wireless
Cannot access to the camera from the Internet	 Default gateway is not configured. 	●Register your broadband router to the network camera as default gateway. (→ page 65)	0	0
	 Port forwarding is not configured to the broadband router. 	Configure port forwarding function (static IP masquerade, NAPT) to your broadband router. For details, read the user's guide of your broadband router.	0	0
	•Setting access restriction from the Internet (WAN side), like IP filter, to the broadband router.	Change the restriction setting. For details, read the user's guide of your broadband router.	0	0
	●Using local (private) IP address.	 When accessing via the Internet, you need to set global IP address provided from your Internet provider to the broadband router. For details, read the user's guide of your broadband router. ** There are fixed IP address and IP address from DHCP server that an Internet provider provides as a global IP address. Ask your Internet provider for more information. 	0	0
	•The IP address which was provided from the DHCP server of the provider has been changed.	 Confirm the new IP address and try to access again with the new IP address. Renew the information registered to the DDNS server. 	0	0
Cannot perform administrator	•Lost the power of the camera during the performance.	Make sure that the power of the network camera is ON.	0	
settings. (Part 1)	•LAN cable of the camera has been pulled off during the performance. (When connecting in wired mode.)	Make sure that the LAN cable is connected to a hub or router in the right way.	0	
	•LAN cable of the PC has been pulled off during the performance. (When connecting in wired mode.)	Make sure that the LAN cable is connected to a hub or router in the right way.	0	
	 Lost the power of a hub or router during the performance. 	Make sure that the power of a hub or router is ON.	0	

Before Calling Service Personnel... (Cont.)

Symptom	Cause	How to Manage	LAN Cor Wired	Nection Wireless
Cannot perform administrator settings. (Part 2)	•Lost the power of a wireless router or access point (AP) during the performance.	 Make sure that the power of a wireless router or access point (AP) is ON. 		0
	•Did not perform any operations for more than 5 minutes while you are displaying admin menu or other setting menus.	 The network camera setting screen automatically logs you out when you don't perform any operations for more than 5 minutes. Try login procedure again 5 minutes later. 	0	0
	 HTTP port number in "Network Connection Settings" under "Network Settings" has been changed. 	 Usually the network camera uses '80' for the HTTP port number. If you set the number other than 80, enter the number registered as the HTTP port number in Camera Finder, and then try administrator login procedure again. When entering the IP address of the network camera directly to the browser, assign the port number after <:> like the example below and try to login again. <u>http://192.168.0.30:88/admin.htm</u> 	0	0
	●IP address in "Network Connection Settings" under "Network Settings" has been changed.	 If you change the IP address, you cannot keep your settings in the setting screen with your old IP address. Search your camera with the application, Camera Finder, and try administrator login procedure again. When you enter IP address of the camera directly to the browser, enter the new IP address in URL like example below, and try login procedure again. http://192.168.0.50/admin.htm 	0	0

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Symptom	Cause	How to Manage	LAN Cor Wired	nection Wireless
Cannot perform administrator settings. (Part 3)	ESS-ID in "Wireless LAN Settings" under "Network Settings" has been changed.	 Make sure that the settings and conditions of wireless LAN mode of all devices, including the network camera, are all the same. *Some wireless devices recognize ESS-ID automatically; however, you need to configure the right ESS-ID on the network camera. *When using the network camera in wired mode, there is no problem to access the camera even if you made some changes in wireless LAN settings. 		0
	•Wireless channel(COM Channel) in "Wireless LAN Settings" under "Network Settings" has been changed.	 Make sure that the settings and conditions of wireless LAN mode of all devices, including the network camera, are all the same. *Some wireless devices recognize COM Channel automatically; however, you need to configure the right COM Channel on the network camera. *When using the network camera in wired mode, there is no problem to access the camera even if you made some changes in wireless LAN settings. 		0
	 Settings of WEP in "Wireless LAN Settings" under "Network Settings" has been changed. 	 Make sure that the settings and WEP conditions of wireless LAN mode of all devices, including the network camera, are all the same. When using the network camera in wired mode, there is no problem to access the camera even if you made some changes in wireless LAN settings. 		0

Before Calling Service Personnel... (Cont.)

Symptom	Cause How to Manage		LAN Connection Wired Wireless	
Cannot perform administrator settings. (Part 4)	●You have entered and saved different IP address from your PC to "Access Restriction Settings" under "Security Settings."	 Try login procedure again after setting the IP address which you have set to "Access Restriction Settings" of the camera to your PC. When you forget the IP address you have set to "Access Restriction settings," you need to reset the setting information in the network camera. Remember that if you perform reset procedure of the camera, all the settings you have made will be deleted and the camera goes back to its default settings. See page 105 for details on how to perform reset procedures. * You need technical knowledge of the network to configure this item. 	0	0
	 You have entered and saved the different MAC address from your PC to "Filtering Settings" under "Security Settings." 	 You need to reset the setting information in the network camera. Remember that if you perform reset procedure of the camera, all the settings you have made will be deleted and the camera goes back to its default settings. You need technical knowledge of the network to configure this item. 	0	0
Cannot display images from the network camera.	●Java™2 Runtime Environment SE Ver1.4.2 is not installed.	●Install Java™2 Runtime Environment SE Ver1.4.2	0	0
	 The Internet line is busy. 	•Wait for a little while. Sometimes it takes time to display images.	0	0
	 There are not enough resources (CPU power, RAM). 	 ●There are the recommended requirements of PC to view the images of the network camera. (→ Basic User's Guide page 12) ●Close all applications other than the network camera browser. 	0	0

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Symptom	Cause	How to Manage	LAN Cor Wired	nection Wireless
Renewal speed of network camera images is too slow.(Part 1)	●Picture size is too large.	 The default setting of picture size is VGA(640x480). Go to "Camera Settings"/ "General Settings"/ "Camera Picture Size" and set smaller picture size to have faster renewal speed. 	0	0
	●The "Picture Quality" is set to "HIGH."	•When you choose "LOW" in "Picture Quality" in "General Settings" under "Camera Settings," the renewal speed becomes faster; however, the picture quality becomes poor.	0	0
Renewal speed of network camera	•More than one users are accessing the camera at the same time.	•When many users access to the camera at the same time, the renewal speed of the image becomes slow.	0	0
slow.(Part 2)	•Connecting the network camera to a router or an access point (AP) in wireless mode.	Display speed of the images in wireless mode is slower than that of wired mode. If you'd like to have faster display speed, connect the camera in wired connection mode.	0	0
No colors in the images.	●The Auto B/W is ON.	 Change the Auto B/W setting to OFF. 	0	0
Cannot display the camera images in the dark.		0	0	
The network camera images are reversed in	●Installed the camera in wrong way.	 Make sure that the camera is installed in right way. "TOSHIBA" logo on the bottom of the network camera has to be facing front. 	0	0
upəlu c -UUWII.	●Ceiling installation.	•When you suspend the camera from the ceiling, the images may displayed upside-down. Go to "Camera Settings"/"General Settings" and set the "Installation Environment" to "Ceiling."	0	0

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Set up

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Before Calling Service Personnel... (Cont.)

Symptom	Cause	e How to Manage		nection Wireless
Colors of the images are poor.	 Monitor color setting of your PC is set to 16 bit or less. 	Set the monitor color higher than 16bit.		0
Focus of the images is poor.	 The lens cover of the camera is not clean, or some dusts are on it. 	●Wipe off the lens with dried cloth.	0	0
	 Distance to an object is to far. 	•The camera cannot focus at close range (less than 80cm). Use the camera at the minimum distance of 80cm or more for IK-WB11A and 35cm or more for IK-WB01A from an object.	0	0
No sound is output.	●Java™2 Runtime Environment SE Ver1.4.2 is not installed.	●Install Java™2 Runtime Environment SE Ver1.4.2	0	0
	Sound volume on your PC is "O."	●Adjust the volume of your PC.	0	0
	No microphone is installed.	●Install commercial microphone (→ Basic User's Guide page 15) to your network camera.(IK-WB11A only)	0	0
	•The microphone you are using is not a supported microphone of IK- WB11A.	●You can install only condenser typed monaural microphone. Plug type has to be monaural 3.5f.	0	0
Sound sensitivity of your camera is poor.	●The "Sound Sensitivity" is set to "LOW."	•You can adjust the sound sensitivity at "Camera Settings"/ "General Settings"/"Sound Sensitivity." The sensitivity heightens when you set it to "HIGH."	0	0
	The microphone is facing wrong way.	•Face the microphone of the camera where you want to gather sound. (IK-WB11A only)	0	0

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Symptom	Cause	How to Manage	LAN Cor Wired	inection Wireless
Cannot send mail.	 Settings of SMTP, POP3 server may not be right. 	●Check your SMTP and POP3 server which are provided from your provider. (→ page 80)	0	0
	DNS server setting may not be right.	● Set your DNS server from your provider to "Primary" and "Secondary" in "DNS Settings." (→ page 96) ** Sometimes "primary" is described as "master" and "secondary" is described as "slave," but these meanings are the same.	0	0
	 Mail sending conditions are not configured. 	●To send mail, you need to perform mail sending settings of the camera. (→ page 85)	0	0
Cannot perform Auto Time Settings.	 NTP server setting may not be right. 	 The NTP server released on the Internet may become invalid without notifying users. 	0	0
Couldn't complete firmware updating.	•Couldn't complete the updating because of network trouble, the power has cut off or other reasons.	 Retry updating firmware by following steps of "Updating the Firmware" on page 112. 	0	0
Cannot solve the problems.		●Consult with your dealer.	0	0
Recorded images are not saved in	•FTP recording function is not set to ON.	●Check the FTP recording function whether it is set to ON. (→ page 100)	0	0
FTP Server.	●IP address of the FTP server, ID/ password or transfer directory is not set properly.	●Set the correct information in the setting screen. (→ page 100)	0	0
	•Could not keep the communication with the server during file transfer using FTP.	 The network camera watches the status of the FTP server all the time. If you leave that condition for approximately 5 minutes, the recording resumes. If the recording did not resume even if you wait for more than 5 minutes, check the connections with FTP server and the network camera. Recording files are stored in the network camera. When the connection is re-established, all the data stored in the camera will be send to FTP server. (IK-WB11A only) 	0	0

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Others

Before Calling Service Personnel... (Cont.)

Symptom	Causa	How to Manage	LAN Cor	nection
Symptom	Cause		Wired	Wireless
Pre-/post- recording files of the Alarm are not sent to the FTP server.	Pre-ecording data is the data before alarm has generated. Therefore, its data sending order is not necessarily in order.	Pre-recording images will be sent after all the post-recording images are sent. Please wait for a while when pre-recording images are not arrived. Also, depending on the conditions of your server, networking, image size and/or image quality settings, numbers of sent images may become fewer than your expectation.	0	0

Others

- When very strong light strikes at the lens, you might see stripe patterns (smear) on the images, but these are not malfunctions. If this happens, reinstall the camera in another place, or try to change the direction of the lens.
- \cdot Sound may not always synchronize with the camera images.
- \cdot You might hear some motor running noise when you move the lens using PAN/TILT function while outputting sound. However, this is not a malfunction. If this happens, try to lower the sound sensitivity from the Admin Menu. For details, see "Sound Sensitivity" on "General Settings" (\rightarrow page 93).

Model name	IK-WB01A	IK-WB11A	
Image sensor	1/5-inch CCD	1/2-inch CCD	
Effective Picture Element	350k pixel	1.45 megapixel	
Focal length	f=2.6mm	f = 6.0 mm	
Angle of view	Horizontal: 58° , vertical: 45° , diagonal: 70°	Horizontal: 56° , vertical: 44° , diagonal: 67°	
Maximum relative aperture	F = 2.8	F = 1.4	
Shutter speed	AES	AES, 1/120, 1/60, 1/30, 1/20, 1/15, 1/8, 1/4, 1/2, 1, 2, 4, sec.	
Minimum illumination	2 Ix (Frame Rate HIGH)	1 lx (Normal, Auto-Sensitivity Boost OFF)	
	0.7lx (Frame Rate LOW)	0.03 lux (Slow shutter ON)	
Pan	112° (-56	S° to 56°)	
Tilt	54° (-49	9° to 5°)	
Pan/tilt presets	10 po:	sitions	
Alarm terminal	Input × 1,	Output × 1	
Image size	640×480 320×240 160×120	1280×960 800×600	
	320×240 zoom 160×120 zoom	640×480 320×240 160×120	
Image compression method	JP	EG	
Quality settings	3 le	vels	
Maximum frame rate	Max. 7.5 fps(640x480),	Max. 7.5 fps(1280x960, 800x600, 640x480),	
	Max. 15 fps(320x240zoom, 160x120zoom)	Max. 30 fps(320x240, 160x120)	
Audio *1	Available (built-in microphone, PCM)	Available (MIC IN, PCM)	
Privacy mask feature	Unavailable	Available	
Motion alarm feature	Unavailable	Available	
Normal recording feature	Unavailable	Available	
External storage media	Unavailable	SD memory card	
Video output	Unavailable	Available *2	
Mail notification feature	Available		
ND switching mechanism *3	None	Available	
Interface	RJ-45 (10Base-T/100Base-TX), wireless LAN (IEEE802.11b)		
Protocols	TCP/IP, UDP/IP, HTTP, SMTP, DNS, DHCP, NTP, ARP, ICMP, syslog, DDNS, RNCP, FTP		
Power supply voltage	10V DC		
Power consumption	8W		
Guaranteed operating temperature	-20°C to +50°C		
Guaranteed performance temperature	0℃ to +40℃		
Guaranteed operating humidity	80% or less		
Storage temperature	-20°C to +60°C		
Weight	Approx. 600 g (camera only) Approx. 650 g (camera only)		
External dimensions	127 (W)×127 (H)×110 (D)mm (camera only)		
Accessories	AC adaptor (1), Power cord (1), Wall attachment (for indoor use) (1), Clamp filter(x2) Screw set, Basic User's Guide, Quick Start Guide, LAN cable (Straight-through cable)(1), Wire Clamp(1)	AC adaptor (1), Power cord (1), Rear cover (waterproof cover and wall attachment holder for indoor and outdoor installation)(1), Sun visor (for outdoor installation)(1), Wall bracket(1), Screw set, Basic User's Guide, Quick Start Guide, LAN cable (Straight-through cable)(1) Wire (Jamo(1))	

*1: The sound may not be clear depending on the conditions of the lines.

- *2: The image output is for checking the image during installation. Images and sounds are not delivered, and recording function will not work during installation.
- *3: The ND filter makes possible to monitor either outdoor or indoor location by controlling light intensity.
- Designs and specifications may change without prior notice for better improvement.

Introduction

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^∽ Appearance Diagram (IK-WBO1A)



Appearance Diagram (IK-WB11A)



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Introduction Viewing • Listening and Operation

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