

ACTION CAMERA

GC-XA1BE



Read this first Before use, be sure to read "Read This Before Using the Camera" (p.2 -p.6)

Detailed User Guide

Read This Before Using the Camera

Safety Instructions

- Before using the product in water, be sure to read p.3 and to use the product correctly.
- Malfunction due to misuse by the customer is not covered by warranty.
- Do not use this product in water deeper than 5 m (16.4 ft) or for longer than 30 minutes.
- Do not drop, puncture or disassemble the camera.
- Use the camera with care. Rough handling may damage the internal components.
- Do not expose the camera to high temperature.
- Please notice that the camera body may become warm when operating it for an extended period.
- Test for proper operation before using the camera.
- · Only use accessories supplied by the manufacturer, such as battery.
- In order to prevent the External Short Circuit of battery, please use the battery bag.
- Remove the battery if the camera is not going to be used for long periods.
- When temperature of the camera reaches to 67°C (152°F), an alarm icon will pop out (\checkmark). Once it reaches to 70°C (158°F), the camera will turn off automatically for safety concern.

Product Information

- Designs and specifications of the camera are subject to change without notice. This includes primary product specifications, software, and this user's manual.
- This User's Manual is a general reference guide for the camera.
- The illustrations in this manual may not be the same as the actual design of your camera and those you see on the LCD screen.

We, JVC KENWOOD Corporation, declare that the product (Model: GC-XA1BE) is following the subclass 22.

Using at low temperatures

On ski slopes, at high elevations, and in other cold areas where the temperature drops below freezing 0°C (32°F), keep the camera warm inside clothing or other insulating material.

- Prolonged contact with the metallic portions of the exposed can trigger frostbite and other damage to the skin.
- Temperatures between 0 and -10°C (32 and 14°F) temporarily lower battery performance, reducing the time available for photography.
- Charging is not possible at temperatures below freezing 0°C (32 °F).
- Turning on the thoroughly chilled camera can result in lower LCD monitor performance, producing a slightly darker screen, afterimages, and other temporary issues.
- Leaving snow and water droplets on the camera in a freezing environment can produce ice crystals inside the gaps surrounding the power button, control buttons, speaker, microphone, etc., interfering with button operation and reducing sound levels.

IMPORTANT: Water, dust, and shock resistance

• Water resistance

The camera operates for 30 minutes at depths up to 5 m (16.4 ft). This is equivalent to the IEC Standard publication 529 IPX8.

Dust resistance

This is equivalent to the IEC Standard publication 529 IP6X.

Shock resistance

This camera clears company testing compliant with MIL-STD-810F Method 516.5 Shock: dropping onto plywood 3 cm (1-3/16") thick from a height of 2 m (6.5 ft).

Note

 Do not immerse the camera in hot springs or other water with temperatures of 40°C (104°F) or above.

• Do not expose the camera to high pressures or shocks associated with swift currents, waterfalls, diving into water, etc.

• Dropping or otherwise exposing the camera to shocks voids the waterproof warranty. Contact your JVC Service representative.

- This camera does not float. Use a strap or other measure to prevent losing it in the water.
- Before opening or closing the cover, wipe off any moisture and move to a low-humidity environment.

• Immediately wipe off any detergent, soap, hot spring, bath additive, oil, sunscreen, or other chemicals coming into contact with the camera.



Make sure that the cover rim seal, the SD slot, and the jacks are intact and free of hair, lint, sand, dust, and other foreign matter. If there is any damage, contact your distributor or JVC Service representative.

securely close the cover.



Press the cover until it closes with an audible snap.

IMPORTANT: Water, dust, and shock resistance

After Using

After underwater use or exposure to dusty conditions, promptly rinse the camera with fresh water and thoroughly dry.

1. Hold down the power button for two seconds to turn off the camera.

Make sure that the cover is securely closed.

2. Rinse with fresh water.

Immerse the camera in a container with enough fresh water to cover completely it.

Operate the buttons to force out any material caught in the gaps around them.

Do not clean with soap, detergent, alcohol, or other chemicals.

Do not rinse the camera under taps or other powerful water sources



3. Dry.

Thoroughly wipe with a dry, soft cloth and dry in a well ventilated location out of direct sunlight. Face the microphone opening downward or take other measures to eliminate any water trapped inside.

Allowing sand to dry on the camera risks scratching. Wash it off and wipe the camera dry. Thoroughly wipe off any foreign matter or water droplets inside the bottom cover.



- Do not dry with a hair dryer or other heat source. Degraded water resistance can result.
- Do not leave the camera for extended periods in freezing temperatures or at temperatures of 40°C (104°F) or above: under direct sunlight, in a parked car in the hot sun, or near a heater, for example. Degraded water resistance can result.
- After using the camera in or near the ocean, first soak it for ten minutes in abundant fresh water to dissolve the salt and then rinse it with more fresh water.
- Do not leave the camera in salt water or with salt water droplets on it. Corrosion, discoloration, and degraded water resistance can result.
- Detach the strap before rinsing the camera in fresh water.
- Remove all water droplets before connecting cables or charging the camera.
- We shall bear no responsibility for data lost due to water immersion.
- We recommend replacing the seal annually to maintain water resistance. Contact your JVC Service representative. (Charges apply.)
- Always keep the battery cover closed before use.
- Attach with proper tripod and install with the product with good care in case of slipping off.
- Do not contact with any metal material to the metal parts of the product when operate in case of breakdown.

Precautions on Using Wi-Fi

Cautions on Wi-Fi Function

Operation is not guaranteed on all devices.

This function is not designed for disaster or crime prevention.

To prevent the situation of forgetting to turn off the power, this unit will turn off automatically after 10 days of continuous usage.

Communication may not be carried out properly near radio equipment or broadcasting stations. In this case, change the location.

Radio wave interference by Bluetooth device.

Bluetooth devices make use of the same frequency bandwidth (2.4 GHz) as that of Wi-Fi devices. Using this product near such devices may cause radio wave interference, and result in a drop in communication speed or connection failure. In this case, turn off the power of devices that are not in use.

Security of Wireless LAN.

An advantage of wireless LAN is that instead of using a LAN cable, it transmits information using radio waves, thus enabling LAN connection to be established within the area covered by the radio waves. However, as radio waves penetrate through objects (such as walls) within the range that they cover, security issues, such as interception of transmission or illegal access, may arise if security settings are not configured.

Before you connect to the network in a wireless LAN environment, read through the instruction manual for the wireless LAN device in use, and configure the security settings accordingly. Failure to do so may increase the risk of personal information being intercepted, such as user names, passwords, and

the content of your mails, or illegal access to the network.

Due to the design of wireless LAN, note that security may be breached by unusual or unforeseeable means.

For more details on wireless LAN and network security, please consult the manufacturer of your wireless LAN d

JVC shall not be liable for any security issues, troubles, damages or losses arising from the use of this featur

Radio Waves Used by this Product

This product makes use of radio waves in the ISM band (2.4 GHz).

Although a radio station license is not required for using this product, please take note of the followin

Do not use this product near the following places.

Industrial, scientific, or medical equipment, such as microwave ovens and pacemakers

Specified low-power radio stations (radio station license not required)

Bluetooth devices

Equipment such as the above mentioned devices makes use of the same frequency bandwidth as that of Wi-Fi.

Using this product near the above equipment may cause radio wave interference, and result in communication failure or a drop in communication speed.

Avoid using this product near a TV or radio set.

TV or radio sets make use of a radio wave frequency bandwidth that is different from that of Wi-Fi, and therefore has no effect on communication by this product or the TV/radio set.

However, when a TV/radio set is placed close to a Wi-Fi product, electromagnetic waves emitted by the Wi-Fi product may cause noise to occur in the sound or images of the TV/radio.

Radio signals are unable to penetrate through reinforced steel, metal, or concrete.

The radio waves used by this product are unable to penetrate through reinforced steel, metal, or concrete materials.

It may difficult for communication to be established if two rooms or floors are separated by these materials.

** Communication may also get weaker when there are human subjects or parts of the body in between the Wi-Fi devices.

Do not connect to wireless networks that you do not have authorization for.

Once connected, it may be considered as unauthorized access and legal actions can be taken against you.

Do not use the Wi-Fi function outside the country of purchase.

Depending on the country, there may be restrictions on the use of radio waves and any violations could be punishable by law.

Exporting/Bringing the Unit Overseas

Permission from the U.S. government may be required when bringing the unit to an export controlled country set by the U.S. government (such as Cuba, Iraq, North Korea, Iran, Rwanda, and Syria. As of November, 2011).

For more information, consult the U.S. Embassy Commercial Serv.

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Cautions

Remember that this unit is intended for private consumer use only.

Any commercial use without proper permission is prohibited. (Even if you record an event such as a show, performance or exhibition for personal enjoyment, it is strongly recommended that youobtain permission beforehand.)

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Section 1 Getting to Know Your Camera

Overview

- This camera with a 5 Mega Pixel sensor can take H.264 format videos. The H.264 technology allows for extended video recording with less memory. High quality images 5 mega-pixels can also be delivered smoothly. With a color LCD monitor, you can view and examine the video and photo easily.
- The camera also features video recording at an HD resolution of 1920x1080. You can also connect it to an HDTV via an HDMI cable, and easily playback the recorded high-definition videos on the wide screen HDTV.
- Moreover, the camera is equipped with WiFi module and the exclusive application. You can broadcast live streaming of the camera on Ustream website via WiFi. Your family and friends can watch the live video streaming of the camera on their smart phones, tablets, or computers.
- The camera can also connect with your computer via WiFi. It can be a wireless webcam for your on-line video chatting. Through WiFi connecting, you can transfer the videos and photos on your computer, and monitor live video from your camera.
- White balance can either be adjusted automatically or changed manually. A 5x digital zoom helps you to control over the video and photo you take. The varied effect options, such as Time Lapse, make recording more fun.



 For the WiFi connectivity working correctly, make sure the bundled WiVideo program (for Windows[®] based systems only) is installed and the wireless LAN module of your computer is activated.

Standard Accessories

Unpack the package and make sure all standard accessories listed are included:

- Battery Pack
- USB Cable
- Flexible Mount
- Flexible Mount Base
- Goggle Mount
- · Lens Protector Cover
- LCD Protector Film

Front View





Side/Rear View



Section 2 Getting Started

Loading the Battery

Before using the camera, you must load the supplied Lithium-ion rechargeable battery.

- 1. To open cover, follow and push 2 directions as shown.
- 2. Press the button down and then push the cover outward.
- 3. Insert the battery according to the correct polarity marks (+ or -).
- 4. Close the battery cover firmly.





Note

- Different battery types and surrounding temperatures may affect the battery performance.
- Never expose the battery to a heating equipment (e.g., microwave oven) and attempt to dispose of a battery by burning or by throwing it into a fire. Heat can cause the battery to explode and/ or release caustic liquid, both which may possibly cause serious injury.
- Turn the power off and stop using the battery if you observe the condition of excessive heat on the battery.

Charge your battery

Connect USB cable, press < / > to select [Adapter], and then press [SET] button.

A blinking light will indicate active charging.

In adapter charging mode, the full charging time for a depleted battery is about 3.5 hours and the light will turn off automatically after the charging is completed.

In PC USB charging mode, a longer charging time is required.(about 5.5 hours)





- Never charge the battery by a method other than as instructed. Doing so may cause a fire or explosion possibly resulting in serious injury.
- Be sure that the power outlet you plug the adapter into is easily accessible. When you need to disconnect power from the camera, be sure to unplug the power cord from the electrical outlet.
- It is not feasible to take a video while adapter is applied, though Endless REC/Time Lapse would still work.

Inserting and Removing a SD Card (Optional)

- 1. Remove the battery cover and the battery.
- 2. Insert the memory card into the slot until it locks properly.
- 3. To remove an installed SD card, press the card inwards to release it.
- 4. When the card pops out, gently remove it from its slot.
- 5. Recommended memory capacity: 2GB or above.



Turning the Video Camera On

- To turn on the camera:
- Press the [Power Button] for two second to turn it on.

Configuring the Initial Date and Time Setup

• The time setting screen appears to allow you to setup date and time:

	Operation	Display Screen
1.	Adjust the numeric value by pressing < +->	Time Setting
2.	Press the [SET button](\textcircled{O}) to go to the next setting.	YEAR 2012 MONTH 01
		DAY 01
		HOUR 01
		MINUTE 01

Getting Started

- To record video: Press the MENU button then press the [SET button] (
). Select (on-screen icon) on the screen to switch to the Video mode (
). Press the [Record button]
 () to record video. To stop recording, press it again.
- To take a photo: Press the MENU button then press the [SET button] (

). Select (on-screen icon) on the screen to to switch to the Photo mode (
). Press the [Record button]
 to take photo.
- To view stored videos and photos: Press to switch to the Playback mode.

Turning the Camera Off

To turn off the camera: You can press the [Power Button]] for two second.

Section 3 Enjoying the Record Mode

Button Function

	To power on or off:
	Hold it for two second.
	After idling for 5 minutes, the camera will turn off automatically.
	To record:
	 In Video Mode, press to take video.
	 In Photo Mode, press to take photo.
+/>7	To zoom in or out:
	• +: Zoom In.
	• -: Zoom out.
	To access menu
	Press to open the option menu.
	• Use - / + / to change between the options. (e.g.
	VIDEO/PHOTO MODE, WIFI, RESOLUTION, WHITE BALANCE).
	To review videos/photos
	Press to go to the playback mode.
	You can view or delete the recorded files.

Video Recording

- Select K (on-screen icon) on the screen to switch to the Video mode (iii).
- Press the [Record Button)] to start recording. When a video is being recorded, a time indicator will display on the LCD monitor (00:12:56). To stop recording, press it again.
- Press to view the recorded video.
- Four resolution settings are available:

Video Quality		
FHD 1080p30	Full HD (1080p 30fps)	
HD 960p30	HD (960p 30fps)	
HD 720p60	HD (720p 60fps)	
HD 720p30	HD (720p 30 fps)	
WVGA 848x480	WVGA (848x480)	

Photo Capturing

- Select 1/2 (on-screen icon) on the screen to switch to the Photo mode ().
- Press the [Record Button)] to take photo.
- Press to view the photo.

Using Zoom Function

- The zoom magnifies images when recording video or taking photo.
- 1. To zoom in/out, press the Tele/Wide (+/-) Button.
- 2. It can be set from 1X~5X (5X Digital zoom)

Options for Record Menu

Menu Flow

- 1. Press _____ on the screen to open the Menu.
- 2. Use $\overline{\langle \cdot \rangle}$ / $\overline{\langle + \rangle}$ to change the pages.
- 3. Press the SET button to select.



Video	Photo	Setting
Video Resolution	Self-Timer	• VIDEO/PHOTO
White Balance	Picture Inversion	Wi-Fi Menu
Time Lapse	White Balance	Volume
Endless REC		TV System
• DIS		Language
Picture Inversion		Time Setting
		Format
		Default Setting
		Update

Video Resolution

Four resolution settings are available.

- Full HD (1080p 30) :Record videos at 1920x1080p 30 fps resolution.
- HD (960p 30):Record videos at 1280x960p 30 fps resolution.
- HD (720p 60):Record videos at 1280x720p 60 fps resolution.
- HD (720p 30):Record videos at 1280x720p 30 fps resolution.
- WVGA (848X480): Record videos at 848x480p 30 fps resolution.

	Operation	Display Screen
1.	In the menu page, select the [Video Resolution] icon on the screen.	■ RETURN
2.	Press [Previous] or [Next] button to choose the desired option.	WVGA 545x450 FHD 1080p30 HD 940p30
3.	Press the [SET button] to validate the setting.	
4.	Press the [Playback button] to return.	< Full HD (1080p30) >

WB White Balance

The camera adjusts the color balance of images automatically. Six manual white balance settings are available:

- Auto: The camera automatically adjusts white balance.
- Daylight: Under outdoor condition.
- Fluorescent: Under fluorescent light condition.
- Tungsten: Under tungsten light condition.
- Blue (marine): Under blue water condition.
- Green (marine): Under green water condition.

	Operation	Display Screen
1.	In the menu page, choose the [White Balance] icon on the screen.	■ RETURN
2.	Press [Previous] or [Next] button to choose the desired option.	Auto
3.	Press the [SET button] to validate the setting	
4.	Press the [Playback button] to return	

UIS(Digital Image Stabilization)

Record with an effect of reducing camera shake to result in more stable video.

	Operation	Display Screen
1.	In the menu page, choose the [DIS] icon on the screen.	► RETURN Ø SET
2.	Press [Previous] or [Next] button to choose the desired option.	
3.	Press the [SET button] to validate the setting.	
4.	Press the [Playback button] to return.	





Record still images at specific intervals you can set and play them as one video file. This effect is good for recording cloudscapes, seed germinating and flowers opening.

- Off: Disable Time Lapse.
- 1 Second.: Record one frame per second.
- 5 Seconds: Record one frame every 5 seconds.

	Operation	Display Screen
1.	In the menu page, choose the [Time Lapse] icon on the screen.	▶ RETURN
2.	Press [Previous] or [Next] button to choose the desired option.	<u>ه</u> ف
3.	Press the [SET button] to validate the setting.	
4.	Press the [Playback button] to return.	



The self-timer allows you to take photos with a ten-second time delay. The LED light on the front of the camera will also blink. The speed of blinking will increase just before the photo is taken.

	Operation	Display Screen
1.	In the menu page, choose the [Self-Timer] icon on the screen.	■ RETURN
2.	Press [Previous] or [Next] button to choose the desired option.	19 10
3.	Press the [SET button] to validate the setting.	
4.	Press the [Playback button] to return.	



📷 Endless REC

The Endless REC allows you to record video with a fifteen-minute time interval without stopping.

	Operation	Display Screen
1.	In the menu page, choose the [Endless REC] icon on the screen.	► RETURN Ø SET
2.	Press [Previous] or [Next] button to choose the desired option.	
3.	Press the [SET button] to validate the setting.	
4.	Press the [Playback button] to return.	

Note

· Video Resolution of this function is 720p30 only.

Picture Inversion

The Picture Inversion allows you to review the pictures inversely.

	Operation	Display Screen
1.	In the menu page, choose the [Picture Inversion] icon on the screen.	■ RETURN
2.	Press [Previous] or [Next] button to choose the desired option.	
3.	Press the [SET button] to validate the setting.	
4.	Press the [Playback button] to return.	

Section 4 Enjoying the Playback Mode

Button Function

The Buttons have the following functions in Playback Mode.

	To power on or off:Press down for two second to turn on or turn off the camera.
	To choose and enable the file: • Press down to choose and enable the file you want to review.
+ / > < / -	To turn next or previous: • >: Next. • <: Previous.
MENU	To delete files: • Press to delete the files.
	To exit the playback modePress to exit the playback mode.

Video Playback

	Operation	Display Screen
1.	In the Video Playback mode, press [SET] button to play or pause the video.	00:12:56 0021/0100
2.	Press [Previous] button to go to the previous video; press [Next] button to go to the next video.	· Ye 1
3.	While playing video, press [Previous] or [Next] button to enable fast rewind or forward function.	- 😻 - 🖓 - 🦉
4.	Press [Playback] button to exit.	
ann	R	

Note

• The number at the top left corner is recording time; top right is the number of files.

Delete Videos

	Operation	Display Screen
1.	Press [MENU] button to go to the Delete option screen.	面 Delete
2.	Press [Yes] to delete the current video or [No] to cancel the operation and to exit.	✓ Yes ▷
		 Delete Image: Second seco



Note
If a memory card has been inserted, you can only delete those files stored on the card.

Photo Playback

Operation	Display Screen
 In the Photo Playback mode, press [Previous] button to go to the previous photo; press [Next] button to go to the next photo. Press [Playback] button to exit. 	0018/0100

Delete Photo

Operation	Display Screen
1. Press delete button to go to the Delete option screen.	面 Delete
 Select [Yes] to delete the current video or [No] to cancel the operation and to exit. 	✓ Yes ▷ The Delete ✓ No ▷



• If a memory card has been inserted, you can only delete those files stored on the card.

Section 5 Setting Your Camera

Setting Menu

	Operation	Display Screen
1. 2.	Press [MENU] button to open the menu. The menu will show on the screen. Press the [Previous] or [Next] button to change the page.	► RETURN
3.	The page contains options for configuring your camera setup including VIDEO/PHOTO, Wi-Fi, Language, Time Setting, Volume, TV System, Format, Default Setting, and Update.	♥ Video/Photo
4.	Press [Playback] button to exit.	

Operation		Display Screen
1.	In the Setting menu, select the [VIDEO/PHOTO] icon on the screen.	▶ RETURN @ SET
2.	Press [Previous] or [Next] button to select the video or photo mode.	
3.	Press [SET button] to validate the setting.	
4.	Press [Playback] button to return.	Video >



Operation Display Screen 1. In the Setting menu, press the [Wi-Fi Menu] icon on the screen. Image: RETURN Image: Set method screen. 2. Choose the way to connect to the network. Image: Set method screen screen. 3. Before using the WiFi connection, please go to the WiVideo to set WiFi ID & Password via PC. Image: Set method screen sc



Enable or disable the keypad tone and the operation sound.

	Operation	Display Screen
1.	In the Setting menu, press the [Volume] icon on the	■ RETURN
	screen.	
2.	Press to select [Mute] or other sound level.	
3.	Press [Playback] button to return.	
		Mute



Ensure that the appropriate TV standard of your area is selected – either NTSC or PAL. Wrong TV system setting may cause image flickers.

- NTSC(60Hz):USA, Canada, Japan, South Korea and Taiwan, etc.
- PAL(50Hz):UK, Europe, China, Australia, Singapore and Hong Kong, etc.

Operation		Display Screen
1.	In the Setting menu, press the [TV] icon on the screen.	■ RETURN Ø SET
2.	Press to select [PAL] or [NTSC].	
3.	Press the SET button to validate the setting.	
4. Press [Playback] button to return.		NTSC

ABC Language

Use this option to select the language of the user interface.

	Operation		Di	splay Scr	een	
1.	In the Setting menu, press the [Language] icon on the screen.		▶ RETU	JRN	SET	
2.	Press to select the desired option.			EN		
3.	Press the [SET] button to validate the setting.		日本語		FR	
4.	Press [Playback] button to return.		\triangleleft	English	\triangleright	

Time Setting

Operation		Display Screen
1.	In the Setting menu, press the [Time Setting] icon on the screen to enter the time setting screen.	VEAR 2012
2.	Press [SET] to set Year, Month, Day, Hour, and Minute.	MONTH 01
3.	Adjust the numeric value by pressing previous / next button to validate the setting.	DAY 01 HOUR 01
4.	Press [Playback] button to return.	MINUTE 01



- Yes: Format the Memory Card (When a memory card is installed).
- No: Do not format the Memory Card (When a memory card is installed).

Operation		Display Screen
1.	In the Setting menu, press the [Format] icon on the screen.	▶ RETURN
2.	Press to select [Yes] or [No] to confirm.	
3. Press [Playback] button to return.		
		< Yes >

Note

• All the data will be erased if the memory card is formatted. Make sure all the data are copied to your PC before formatting the memory card.



Default Setting

To restore the default factory setting, select this option.

	Operation	Display Screen			
1.	In the Setting menu, press the [Default Setting] icon on the screen.	► RETURN OSET			
2.	Press to select [Yes] or [No] to confirm.				
3.	Press [Playback] button to return.				
		Yes >			



Note

The WiFi setting, such as profile of access points and Ustream account information will be erased.

The following table indicates the camera's default settings

Setting	Default Factory Setting			
Resolution	HD (720p 60) for Video			
	5MP for Photo			
White Balance	Auto			
DIS	Off			
Time Lapse	Off			
Self-Timer	Off			
Password of WiFi ID	0000			
TV System	Depends on shipping area			
Language	Depends on shipping area			
Volume	Level 4			
Wi-Fi	Off			
Endless REC	Off			
Picture Inversion	Normal			

Advanced Operation on Your Computer - WiVideo

The camera can connect to your computer via WiFi or USB. Once you launch the [WiVideo] application (for Windows[®] based systems only) on your computer, it will search for your camera and connect to it. Then, you can operate more functions on your computer. There are several functions as below:

- Transfer the files from the camera. (WiFi/USB connection)
- Watch live streaming video from the camera on your computer. (WiFi connection)
- Use the camera as a wireless webcam for online video chatting. (WiFi connection)

Install [WiVideo] on your computer

To connect to the camera and launch [WiVideo] application via WiFi correctly, you have to install this program firstly. It is a perfect platform for you to watch live streaming video from your camera and use the camera as a webcam for your online video chatting.

Follow the steps below to install the [WiVideo] on the computer.

- 1. Connect the camera to your computer by using the supplied USB cable.
- After making a USB connection, the program installs automatically, or the AutoPlay window appears. (It may be different based on OS recognition.) If the AutoPlay window does not appear. Please click [My Computer]-->[WiVideo] to execute the installation of this program.

Windows XP	Windows 7		
(Install automatically)	AutoPlay CD Drive (G) WiVideo CD Drive (G) WiVideo Avays do this for software and games: Install or run program from your media Windeo Windeo Constitute index works Constitute Toplay View more AutoPlay sprions in Control Panel (AutoPlay window)		

- 3. Follow the on-screen instructions to complete the installation.
- 4. The shortcut of WiVideo () shows on the desktop. (Or you can find the application at [Start]-->[All Program].)
- 5. The main screen appears automatically on the desktop.





- WiVideo program will install the H.264 Codec (ffdshow-a free software under GPL license) for viewing the videos correctly.
- To install correctly, you have to log out /quit from the Instant Message (IM) application before the installation.
- WiVideo is for Windows[®] based systems only.
- 6. When the installation is completed, you can unplug the USB cable.



Using WiVideo via WiFi Connection

Operation	Screen		
On your camera:	► RETURN Ø SET		
In the Menu page, go to [WiFi to PC] and press [SET] Button. (The default password is 0000.)	↓ Wi-Fi to PC ↓		

On your computer:

1. Double click [WiVideo] shortcut *make* on the desktop. (make sure the [WiVideo] application is installed in your computer.)

2. Click [Detect WiFi Camera] button to search for your camera.

*One task window may pop out to ask you to select your camera when there are two or more WiFi cameras in the same wireless network range.

3. Select the WiFi ID and input the Password shown on your camera for the WiVideo task window. Then, click [OK].

4. Once the connection is established, the connection signal between mobile and camera via WiFi will be shown on the top left of the screen.



The WiVideo application serves 3 functions via WiFi:

Function	Description				
TRANSFER	You can remote access the videos and photos stored in your camera.				
	You can transfer or delete the files on your computer.				
LIVE VIDEO	Watch live streaming from your camera on your computer.				
	The video resolution can be selected.				
VIDEO CHAT	Use your camera as a wireless webcam for online video chatting				
	(You have to select this device as your webcam on the camera/audio setting				
	first.)*				
	*You have to select [WiVideo Camera] as your webcam/microphone for				
	the online video chatting.				
	(e.g. Skype) (e.g.				



Note

For WiFi connection correctly, make sure the bundled WiVideo (for Windows[®] based systems only) is installed and the wireless LAN module of your computer is activated.

- Make sure your computer connects with your access point (AP) correctly and your camera is in the same range of the WLAN.
- To boost the WiFi signal strength, you can move the camera closer to your computer.
- If the camera is far from your computer or the AP device, it may take longer to connect to the network. (The signal and the radio frequency may be interfered.)
- To prevent the camera from turning off accidentally, please be sure the battery is fully charged.
- Account/WiFi setup are not available without connection via USB cable.

Using WiVideo via USB Connection

- 1. Connect the camera to your computer by using the supplied USB cable.
- 2. After making a USB connection, the main screen will appear. Or please click [WiVideo] shortcut on the desktop to execute the application. Or you can find it at [Start]-->[All Program].



The WiVideo application serves 3 functions via USB:

Function	Description				
TRANSFER	You can access the videos and photos in your camera and upload the files to a social websites.				
	Upload				
	1. Select the videos/photos on the thumbnail screen.				
	2. Click on [Upload].				
	3. The website options appears.				
	4. Select the website and check the Username/Email and password of the specific social website in the fields.				
	5. Click on [SET] to upload.				
	Choose website to upload				
SETUP	Account Setup				
	Set up your social website account information and save them to your camera.				
	WiFi Setup				
	Configure and synchronize your WiFi profile to your camera.				
	Name your camera and create your security password.				
anna /					

Note

- LIVE VIDEO and VIDEO CHAT are not available via USB connection.
- Some social websites may not be allowed to access in certain regions or networks.
- Your computer must have internet access to upload files to the website.
- If you do not have a account, please sign up on the website first.
- The social website is subject to update without notice. Please visit the website first to update your account setting.

Section 7 WiFi to Mobile-WiVideo Program

Advanced Operation on Your Mobile - WiVideo

Use your mobile as a remote control to take photo/videos from camera wirelessly. It makes the camera become a handy accessory to go with your mobile, which allows you to record any scene, any time and any where. There are several functions as below:

- · Use your mobile as a remote control to take photos/videos from your camera wirelessly.
- Tele/ Wide the zoom lens via your mobile.

Install [WiVideo] on Your Mobile

To connect to the camera, you have to install [WiVideo] application program firstly. There are two systems to install WiVideo APP onto your mobile. It depends on which system your mobile is applied with. For Android system, please download this APP from Google Play.

Follow the steps below to install [WiVideo] on your mobile.

1. Download WiVideo APP from Google Play (OS: Android2.2 or higher) or Apple APP Store (OS: iOS4 or higher) onto your mobile.

2. Follow the on-screen instructions to complete the installation.

3. The shortcut of WiVideo (🕋) shows on the screen.



Share Hotspot to Camera [from Mobile]

There are two methods to share your Hotspot depends on which system you use, as follows:

- iOS System:
- 1. First press [Setting] on your mobile.
- 2. Then select [Personal Hotspot].
- 3. Last tap [On]to enable[Personal Hotspot].
- Android System:
- 1. First press [Setting] on your mobile.
- 2. Then select [Wireless and network].
- 3. Last choose [Tethering and Mobile AP] to enable [Mobile AP].



WiFi Modes to Mobile

System	Mode		
	Connect via AP	31	
Android	Connect via Mobile Hotspot	32	
	Connect via AP	33	
iPhone/iPad	Connect via Mobile Hotspot	34	
	Connect Directly to Camera	35	

Note

- Before proceed any connection between Mobile and Camera, please connect to PC via USB cable and set up Wi-Fi profile with WiVideo (Enter SSID and Password).
- WiVideo is for Windows® based systems only.



WiFi to Mobile (Android: AP Mode)



Mobile: Install WiVideo

- WiVideo is a software to connect wireless between camera and mobile/tablet.
- Download WiVideo APP from Google Play onto mobile/tablet.

Mobile: Connect to Access Point

Go to [Settings] \rightarrow [Wireless & network] \rightarrow [Wi-Fi settings] \rightarrow [Wi-Fi] (Enable WiFi and connect to AP)



Camera: Connect to Same AP

Press [MENU] \rightarrow select [WiFi \bigcirc] \rightarrow choose [WiFi to Mobile \bigcirc] to scan available AP \rightarrow connect camera to the same AP



Mobile: Launch WiVideo APP

Press [WiVideo] APP icon \rightarrow detecting cameras \rightarrow enter the password (The default is 0000 and it can be edited via WiVideo APP Setup) \rightarrow start preview and remote control.

WiFi to Mobile (Android: Mobile Hotspot Mode)



(2)

(3)

Mobile: Install WiVideo

- WiVideo is a software to connect wireless between camera and mobile/tablet.
- Download WiVideo APP from Google Play onto mobile/tablet.

Mobile: Enable Mobile Hotspot/AP

- Go to [Settings] \rightarrow [Wireless & network]
 - → Enable mobile hotspot/AP



Note

- Operation may vary, please refer to each individual model.
- Be aware of using Hotspot service may not be provided in some countries.

Camera: Connect to Hotspot/AP

Press [MENU] \rightarrow select [WiFi $\fbox{}$] \rightarrow choose [WiFi to Mobile $\fbox{}$] to scan available AP \rightarrow connect camera to mobile hotspot/AP



[MENU] Button

[SET] Button

Mobile: Launch WiVideo APP

Press [WiVideo] APP icon \rightarrow detecting cameras \rightarrow enter the password (The default is 0000 and it can be edited via WiVideo APP Setup) \rightarrow start preview and remote control.

WiFi to Mobile (iPhone/iPad: AP Mode)





Mobile: Launch WiVideo APP

Press [WiVideo] APP icon \rightarrow detecting cameras \rightarrow enter the password (The default is 0000 and it can be edited via WiVideo APP Setup) \rightarrow start preview and remote control.

WiFi to Mobile (iPhone/iPad: Mobile Hotspot Mode)



Mobile: Install WiVideo

- WiVideo is a software to connect wireless between camera and mobile/tablet.
- Download WiVideo APP from App Store onto iPhone/iPad.

Mobile: Enable Personal Hotspot

- Go to [Settings] \rightarrow [WiFi]
 - Enable [Personal Hotspot]



- Be aware of using Hotspot service may not be provided in some countries.

Camera: Connect to Hotspot

Press [MENU] \rightarrow select [WiFi $\widehat{\mathbf{P}}$] \rightarrow choose [WiFi to Mobile 🌉] to scan available AP →connect camera to mobile hotspot/AP



Mobile: Launch WiVideo APP

Press [WiVideo] APP icon \rightarrow detecting cameras \rightarrow enter the password (The default is 0000 and it can be edited via WiVideo APP Setup) \rightarrow start preview and remote control.



Using WiVideo via WiFi Connection

Operation	Screen		
 <u>Connect Camera to Your Mobile:</u> 1. Press the [MENU] Button on camera. 2. Select [] Ito turn on the function of WiFi. 3. Choose [] and then press [SET] button to scan available Access Point. 4. Select the hotspot of your mobile and follow steps from one of the systems. 	 ▶ RETURN ● SET ● SET ● SET ● Wi-Fi to Mobile ▷ 		
 <u>Remote Control Your Camera (from Mobile):</u> 1. Press [WiVideo] APP icon on your mobile. 2. Detect the available cameras automatically from your mobile. 3. Enter the password (The default is 0000 and it can be edited via [SETUP] from WiVideo APP.) 4. Enjoy playing your camera via your mobile. 	I2:34 PM View I I I I I I I I I I I I I I I I I I I		

Section 8 WiFi to Cloud-Ustream

Sign up and Store Ustream Account to Camera

Ustream enables you to free broadcast the live video of your camera. People can watch your broadcasting on their iPhone, iPad, iPod press, Android phones/tablets, or PC on Ustream website/ APP anytime, anywhere.

Operation	Screen			
(1) Create an account (skip this if a Ustream account is				
 ready) 1. Go to WiVideo and create a new account for Ustream. 2. Click [Create A New Account] and then fill up the information requested step by step. 3. Then click [Sign Up]. Note				
 Remember to plug the USB cable between PC and your camera for connection. The screen will go back to WiVideo settings once sign up successfully. (2) Store/Remove an account to/from your camera Enter Username/Password and click Store/Remove. 	2.			
(3) Choose your channel	Choose your channel			
You could only choose one channel created by you from Ustream. • Note • You may encode Password for your channel. <u>Update account/channel</u> There is one account stored only, so you may change account/channel in your camera.	http://www.adtream.tr/drumme/www.dec-tpe:3 Virvideo=TPE3 OK			
	WiVideo			

Prepare to broadcast on Ustream

Ensure you have a working AP (Access Point) device to get ready to start broadcasting.

Broadcast live streaming on Ustream

Start Video Streaming of Camera 1. Select Ustream on [Wi-Fi Menu] page. 2. Choose AP for connection. 3. Live video start Note	■ RETURN ● SET ■ SET ■ USTREAM
When execute [Default Setting], the account information of the websites will be erased.	
 <u>Watch Live Video from Mobile</u> 1. Install Ustream App from Google Play or Apple Store. 2. Click Ustream App 3. Search your account. 4. The mobile connects to Ustream server and view video streaming from camera. 	<image/>
 <u>Watch Live Video from PC</u> 1. The video streaming will be broadcasted on the Ustream website. 2. People who has your account, they can visit Ustream website and watch the live video streaming from camera through computers. 	



The possible reasons for "Connecting Failed" could be (1) wrong password ; (2) you are not in the wireless network area of the AP. (3) the camera does not support the type of encryption used on the AP. This model only supports WEP/WPA/WPA2 personal type of encryption, but not up to enterprise level (4) your network requires PPPoE account/password information.

- This camera only supports the AP(SSID) named in English/number/symbols (ASCII characters).
- You can only enter text in English, regardless of the OSD language.
- Some AP routers do not allow you to connect to the network (e.g. firewall).
- The camera cannot connect to the network while it is connected to HDTV via the cable, or vice versa.
- It may take time to scan and connect to the AP/network or to upload. The stream speed is affected by the Internet connection speed or other factors.
- Please be sure the battery is fully charged before connecting to the network.
- Ustream may not be allowed to access in certain regions or networks.

Section 9 Viewing Photos and Videos on TV

Connecting to a High-Definition 16:9(Wide) TV

- 1. Connect the HDMI cable to your camera's HDMI out port.
- 2. Connect the other end of the cable to a television.
- 3. Set the video input source of your TV to " HDMI."
- 4. The steps for viewing stored videos and photos on HDTV are exactly the same as for viewing them on the LCD monitor.



Note

- Some icons on the LCD screen do not display when the camera is connected to an HDTV.
- Some functions may not be accessible while the camera is connected to HDTV.
- Video/photo taking is not applied while HDMI cable is on.
- WiFi function would not be applied while HDMI cable is used with TV.

Section 10 Viewing Video & Photo on PC

Transferring Photos or Videos to a Computer

You can transfer photos or videos stored on your camera to a computer and send them in e-mails to friends or post them on the web sites.

To do this you should:

- 1. Connect the computer and camera with the supplied mini USB 2.0 cable.
- To access photos and videos on your memory card: Videos and photos can be found on your computer at <u>My Computer\ SD\DCIM\100MEDIA (path will vary depending on the name of the</u> memory card).
- 3. Under this folder, you can view, delete, move, or copy any video/photo you want.

Section 11 Specifications and System Requirements

Specification

Image sensor	5 Mega pixel CMOS sensor
Operation modes	Video record, Photo record, Live streaming via WiFi, Wireless webcam
Lens	Fixed Focus (F 2.8)
Focus range	60 cm ~ infinity
Zoom	1X~5X (5X Digital zoom)
Shutter	Electronic
LCD monitor	1.5" LCD
Storage media	SD/SDHC/SDXC card slot support (up to 64GB)
Image resolution	5MP: 2592x1944 (5M pixels)
Video resolution	Full HD (1080p 30): 1920X1080(30fps)
	HD (960p 30): 1280X960(30fps)
	HD (720p 60): 1280X720(60fps)
	HD (720p 30): 1280X720(30fps)
	WVGA (848X480): 848X480(30fps)
White balance	Auto, Daylight, Fluorescent, Tungsten, Marine Blue, Marine Green
Self-timer	10 seconds delay
File format	Photo: JPG
	Video: MP4 (H.264)
Image play	Single image/Slideshow
PC interface	Mini USB 2.0 port
TV out	HDMI Mini
WiFi	Compatible with WiFi 802.11 b/g
Battery	Lithium-ion rechargeable battery
Dimension	74mm x 53mm x 35mm (2-15/16" x 2-1/8" x 1-7/16") (L x H x W)
Weight	104g (0.23lbs) (without battery)
Operating environment	Allowable operating temperatures: -10 to 40°C (14 to 104°F)
	Note: Temperatures between 0 and -10°C (32 and 14°F) temporarily
	lower battery performance, reducing the time available for photography.
	Allowable storage temperatures: -20 to 50°C (-4 to 122°F)
	Allowable relative humidity: 35% to 80%
Water resistance	Equivalent to IEC Standard publication 529 IPX8 (30 minutes at depths up to 5 m (16.4ft))
Dust resistance	Equivalent to IEC Standard publication 529 IP6X

This camera clears company testing compliant with MIL-STD-810F Method 516.5 Shock: dropping onto plywood 3 cm (1-3/16") thick from a height of 2 m (6.5ft).

Recordable Time/Number of Images

Approximate Video Recording Time

Quality	SDHC/SDXC Card					
Quality	4GB	8GB	16GB	32GB	48GB	64GB
Full HD (1080p30)	35m	1h10m	2h20m	4h50m	7h10m	9h30m
HD (960p30)	60m	2h00m	4h00m	8h00m	12h	16h00m
HD (720p60)	40m	1h20m	2h40m	5h20m	8h10m	10h50m
HD (720p30)	1h20m	2h40m	5h20m	10h30m	15h50m	21h00m
WVGA (848x480)	3h00m	5h50m	11h50m	23h40m	35h30m	47h20m

Approximate Number of Still images (Unit : Number of Shots)

Quality	SDHC/SDXC Card						
	4GB	8GB	16GB	32GB	48GB	64GB	
5MP: 2592x1944	1800	3600	7200	9999	9999	9999	

Approximate Recording Time (Using Battery)

Charging Time	Continuous Recording Time	Actual Recording Time	
(Adapter):3h30m	1h10m	40m	
(USB):5h30m	1h10m	40m	



The approximate recordint time is only a guide. The actual recording time may shorten depending on the shooting environment.

System requirements

- Windows XP Home Edition or Professional (Pre-installed versions only) Service Pack 3
 Windows Vista 32/64-bit Home Basic or Home Premium (Pre-installed versions only) Service Pack 2
 Windows 7 32/64-bit Home Premium (Pre-installed versions only) Service Pack 1
- Intel Core Duo 1.7GHz or higher
- 1GB System memory and free
- 2GB System hard disk space
- Available USB 2.0 port or above
- WiFi b/g capability

Note



The LCD screen is manufactured using extremely high-precision technology, so over 99.99% of the pixels are operational for effective use. However, some tiny black and/or bright dots (white, red, blue or green) may appear on the LCD screen. These dots are a normal result of the manufacturing process, and do not affect the recording.

Section 12 Troubleshooting

Troubleshooting

If the camera fails to function as expected, check the list of the common problems below.

Problem/Situation	Remediation/Solution
Cannot turn on the camera. The	• Battery pack is weak or depleted. Recharge the battery pack.
power turns off suddenly.	
Camera cannot be turned on	Please make sure that you use the supplied power adapter
after plugging power adapter.	and connect it to the power outlet correctly.
WiFi icon does not appear after	Battery pack is low. Recharge the battery pack.
pressing WiFi button.	
The files on the memory card do	• "!" means the SD card is low speed or contains corrupted files.
not display smoothly when the	To solve this, format the SD card using the camera instead of
LCD shows the "!" marking.	a computer. (Please refer to the detailed Format instruction in
	Section 5).
	The card has some problems and can not be recognized.
	Change the card with another one.
	Or please change the SD card to a high speed one.
Cannot take video/photo.	Memory is full. Delete some unnecessary videos/photos or
	insert a new SD card.
	Power is off. Press the [Power Button] to turn on.
The camera is frozen.	Please remove the battery/unplug the adapter. Then, insert
	the battery/plug the adapter and turn on the camera again.
The date imprinted on the photo	Set the date and time in the [Setting] menu.
is incorrect	
Why do some of my indoor	Poor lighting. Take photo in better lighting.
photos IoSET blurry and dark?	The camera extends photo exposure time under low light/
	indoor condition. Keep the camera (and the target subject)
	steady for several seconds when taking photos.
	Place the camera on a flat and steady surface, or use a
	tripod when take photo.
The color of the video/photo is	Select the proper white balance option to match the light
not natural.	source.
When the camera is connected	"DV" indicates the internal memory of the camera.
to the PC via USB cable, many	"Removable Disk" indicates the external memory (memory
Autoplay windows may pop out.	card installed in the camera).
They indicate the disks of the	"WiVideo" indicates the bundled program. If you want
camera.	to install this program, please double-click on it to start
	installation automatically.

		The measured are formation data and match to the AD and
The LCD shows [Connecting	•	The password configuration does not match to the AP you
Failed] after pressing WiFi		want to connect.
Button.	•	The AP router or the computer is not turned on. Turn the AP
		router or your computer on.
	•	The camera is not in the wireless network service area or
		weak network signal. Please make sure the AP router is able
		to access the Internet.
	•	The camera does not support the type of encryption used on
		the AP. This model only supports WEP/WPA/WPA2 personal
		type of encryption, but not up to enterprise level.
	•	Your network requires PPPoE account/password information.
	•	Some AP routers do not allow you to connect to the network
		(e.g. firewall).
	•	The social websites update their websites without notice.
		Please visit the website first to update your account setting or
		upgrade the firmware and WiVideo program.
The WiVideo program cannot be	•	Check the computer system compatibility.
installed.		
Wi-Fi connections break off.	•	The camera disables any Wi-Fi connection three minutes after
		shooting starts. Use the menu to re-enable it. Reconnect in a
		clear radio environment. Remember that the communication
		speed drops, interfering with connection, if the receiver is too far
		away, there is something in between blocking communications,
		or there is a microwave or wireless equipment in use nearby.
Connecting a USB cable stops	•	Only time lapse and endless recording are available with a
photography. Photography is		USB cable connected. (Endless recording is limited to 720p
not possible with a USB cable		30 fps.)
connected.		
There is no HDMI output.	•	HDMI output is disabled during recording.
The thermometer icon appears.	•	Turn off the camera and allow it time to cool down.