

Thank you for purchasing the Canon Still Video Camera "Xap Shot" RC-250, an entirely new camera that takes pictures, displays them and erases them as you wish. Please read these instructions carefully before using the camera and keep them in a readily accessible place for future reference.



Keep the front and back pages of this manual opened for easy reference to the camera's parts.

This product is sold under the name "Q-PIC RC-250" in Japan.

### **Main Features**

#### 1. Shoot and show

The Xap Shot records pictures on a video floppy disk and immediately displays top-quality images on a TV screen easily.

### 2. High disk capacity

Fifty pictures can be recorded on a two-inch video floppy disk.

3. Shooting and editing versatility During shooting, disks can be exchanged at anytime. Erased or skipped tracks can be recorded over for maximum disk use. Track erasing and skip / insert shooting are fast and simple too.

#### 4. Macrophotography

Shoot close-ups from 12 in away.

## Names of Parts (1)



Hive is the standard symbol recognized for the still video floppy system.

This camera complies with the "high-band" format of the still video floppy systems./Use the standard video floppy disk with the RC-250./Images recorded in the high-band format cannot be displayed on a player without the High-mark./Images not recorded in the high-band format will not be displayed properly.

# Names of Parts (2)



The small hole on the bottom of the camera is for attaching the Action Grip and is not a tripod socket.

# System Components



You need a battery pack BP-4P or a battery charger BA-24P plus an AC coupler AV-C25 to take pictures and display them.

\* Items @ through @ are sold separately.

Pin Cable KE-PIN
 Video Floppy Disk VF-50

The following items are enclosed with your "RC-250" camera package. Please confirm that you have them when unpacking the box.

• Wrist Strap WS-C25 Attach as shown.





Soft Case SC-C25



• Warranty

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## **Precautions**

- This camera is not waterproof. If you splash water on it or expose it to sea breezes, wipe it thoroughly with a clean dry cloth.
- Do not leave the camera in direct sunlight, or other places where the temperature can get extremely hot, such as the trunk or rear window shelf of a car.
- Avoid using or storing the camera in places where dust or sand can damage it.

- Never attempt to disassemble the camera.
- Always use a soft cloth to clean the camera.
- Handle the camera very carefully. Do not subject it to unnecessary shock that may damage the camera.
   If you do not plan to use the camera for a while, remove the battery pack and store it in a well-ventilated, cool, and dry place. Be sure to charge the Battery Pack BP-4P at least once every six months.



- Video floppy disk precautions
- Keep the disk in its case when not in use.
- Do not leave a disk loaded in the camera for a long time.
- If the dustproof shutter opens by accident, close it immediately. Never touch the disk inside.
- Do not put video floppy disks near a motor, or electronic devices which generate strong magnetic fields.

- Do not leave disks in direct sunlight, in a car trunk or other places where the temperature or humidity can become very high.
- · Keep disks away from dust or dirt.
- Do not bend or drop disks. Protect them from strong vibration or shocks.



# Video Floppy Disks

## (1) What is a video floppy disk?

A video floppy disk is a two-inch floppy disk which conforms to worldwide standards. One disk has 50 recording tracks, and the RC-250 records one picture in each track. Tracks are numbered from 1 to 50.



Use the Canon Video Floppy Disk VF-50 with the RC-250.



### (2) Erasure Prevention Tab

- The recorded video floppy disk can be used to record new images over and over again after erasing old ones. However, by breaking the erasure prevention tab, the recorded images cannot be erased.
- Break off the tab to prevent accidental erasure.
- If a disk without an erasure prevention tab is covered by the seal included or thin cellophane tape at the tab portion, it can be used again for recording or erasure.



## **1. Power Source**

The RC-250 can be powered by either the Battery Pack BP-4P for great mobility, or connection to a wall outlet for shooting or viewing pictures at home.

### (1) Battery Pack BP-4P

Install the battery as shown below.

- 1. Set the main switch to LOCK.
- 2. Remove the battery cover.
- 3. Insert a fully-charged battery in the direction of the arrow.
- 4. Replace the battery cover.







- A new, fully-charged battery takes approximately 800 shots without flash use, or 200 ~ 300 shots if flash is used for about one in every four photos.
- Pictures can be viewed on a TV screen for  $10 \sim 15$  minutes.

(Based on Canon's Standard Test Method)

- \* Battery life reduces in low temperatures,
- \* We recommend that you always have a spare battery handy when operating the camera in low temperatures or if taking many flash photos.

### **Battery Pack BP-4P Precautions**

 The battery must always be fully charged before use. Be sure to read the handling instructions for the battery and the battery charger.

Be sure to charge the Battery Pack BP-4P with the Canon Battery Charger BA-24P (or BC-24P).

- Set the main switch to LOCK before removing the battery from the camera.
- If you do not plan to use the battery, store it in a dry, dark and cool place. Do not forget to charge the battery at least once every six months.
- If the battery is damaged and battery fluid (electrolyte) should come in contact with your clothing or skin, wash it off immediately with plenty of water. If the fluid contacts eyes or mouth, wash it out immediately with plenty of water and see a physician.

- Carefully observe the following precautions to avoid danger:
  - \* Never connect (short out) the positive (+) and negative (-) terminals.
  - \* Never attempt to disassemble the battery.
  - \* Never dispose the battery in an open fire.
  - \* Always keep the battery out of the reach of children.
- Observe the following precautions to avoid damage or deterioration of battery.
  - \* Do not drop the battery.
  - \* The battery pack BP-4P is to be used only with the RC-250. Do not use it with other equipment.
  - Refrain from using the battery in extreme temperatures below 23°F or above 104°F (-5°C or above + 40°C)

### (2) Power from a Wall Outlet

Connect the camera, the battery charger, and the AC coupler as shown below:



- \* See the Battery Charger and AC Coupler manuals for its connection.
- \* See page 30 about connection to TV units for viewing or erasing pictures.
- ★ The coupler terminal on BA-24P only accepts the AV-C25. Other attachments may create a fire hazard.

# 2. Display Panel

The display panel indicates necessary information for recording, viewing and erasing pictures.



#### Warnings in the Display Panel







- 00 : (00 blinking) A video floppy disk is not loaded.
- Pr: (Pr blinking) **The erasure prevention tab is broken** (appears only in recording or erasing modes).
- 50: (50 blinking) **All tracks have been recorded** (appears only in recording mode). This warning appears whenever the 50th track is recorded even if other tracks may be unused. See page 22 about recording pictures on skipped or erased tracks.
  - 1 : (1 flashing) The battery power is low.
- Lb: (1 and Lb flashing) **Replace the battery immediately.** The camera will not function.
  - Er: (Er flashing) Error exists. Press the shutter button or remove and re-insert the video floppy disk. If Er still flashes, try another disk. If the camera still does not function normally, consult your dealer or nearest Canon Service Facility.







# 3. Inserting a Video Floppy Disk

- 1. Press the disk eject button to open the disk cover.
- 2. Insert a video floppy disk as shown with the arrow pointing toward the disk cover.
- 3. Close the disk cover securely.







Disks will not go in any other position. Do not force them in.



- \* Press the disk eject button to remove the disk. The disk will pop out slightly as the disk cover opens.
- \* When exchanging disks, be careful not to expose them to water, dust, dirt, etc.

# 4. Taking Pictures

## (1) Regular Shooting

1. Set the main switch to REC.



- \* The first usable track number appears in the display panel. It increases as you take pictures.
- \* Good pictures require that the lens be clean at all times. Wipe it with a lens cleaning paper before taking pictures.

2. Press the shooting mode selector and set the desired mode.



\* The mode indicator in the display panel changes from S to C and C to ⊗ each time you press the shooting mode selector.

Mode Description		Display* panel
Single-shot	Takes one picture each time you press the shutter button.	s I
Continuous- shot	Takes approximate- ly 3 pictures per second while the shutter button is pressed.**	c
Self- <mark>time</mark> r	Shutter release is delayed for about 10 seconds to put yourself in the picture.	ف

- \* Display indication when the new video floppy disk is inserted.
- \*\* The continuous shooting speed decreases when taking flash photos.

3. Look through the viewfinder and compose the picture.



The shooting distance range is from 3.3ft/1m to  $\infty$  (infinity). Unless taking Macro photos, keep at least 3.3ft/1m away from the subject for sharp focus.

The camera has a built-in dioptric adjustment ring. If you are near- or far-sighted, turn the adjustment ring until you see the image clearly. 4. Press the shutter button halfway. If the red light does not blink in the viewfinder, the camera is ready. Press the shutter button completely to take a picture.



\* A small click will sound when you press the shutter button halfway indicating that the motor has started. Press the button completely to take the picture. A "click-click" sound will be heard as the shutter is released. 5. If the red light blinks slowly (2 times per second) when you press the shutter button halfway, switch to flash photography. (See page 24)



- \* The red light blinks fast (8 times per second) in the following conditions:
  - A disk is not loaded.
  - Disk is full.
  - · Disk with a broken erasure prevention tab loaded.
  - The main switch is at PLAY.
  - The battery warning appears in the display panel.

#### Holding the camera

- Keep your elbows close to your body. Press the shutter button slowly and keep the camera still.
- During shooting, be careful not to block the flash or lens with your fingers.
- Before shooting important events, always perform a trial shooting to confirm normal operation.





## (2) Skip/Insert shooting

You can take (record) pictures on any empty tracks randomly.

- Skipping tracks
- 1. Insert a new or partially recorded video floppy disk in the camera.
- 2. Set the main switch to REC. The first available track will be set.
- 3. Holding the forward-feed button down, press the shutter button halfway. No picture is taken and the next available track will be set. Repeat these steps to record pictures on any empty tracks randomly.





- Recording pictures on partially erased or skipped tracks
- 1. Insert a video floppy disk in the camera and set the the main switch to REC. The track next to the recorded track having the highest number will be set.
- Holding the reverse-feed button down, press the shutter button halfway. The track number counts down and the first available track will be set. Repeat these steps as you wish and record pictures on erased or skipped tracks.





## (3) Flash Photography

The flash provides additional light in dim surroundings. There are three operating positions.

AUTO	ON ANTON	Selector set to AÚTO	The camera determines when it is needed and operates automatically. Set the selector to AUTO for best results during normal shooting.
ON	ON OFF	Selector set to ON	The flash fires for each shot.



Blinking → Remains lit

#### Press the shutter button halfway, wait for the blinking red light\* to remain continuously lit, and press the shutter button all the way to take a picture.

The flash shooting range is 3.3ft ~ approximately 10ft (1m ~ approx. 3m).

\* The red light blinks irregularly indicating the flash is being charged. The shutter will not release until the light stops blinking.

OFF Selector set to OFF	6.	The flash does not fire.	
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- (1) If the red light in the viewfinder blinks slowly,
- (2) If you are taking pictures in a museum, theater, etc., where flash use is prohibited,

Shoot after setting the flash selector to AUTO or ON.

Shoot with the flash selector at OFF.

Please note that pictures will be dark when shooting in this condition.

★ This camera does not have a fill-in flash feature. When you are taking pictures of backlit subjects use the exposure compensation button explained in the next section.

### (4) Shooting Backlit Subjects (Exposure Compensation Function)

If the subject has a strong light source coming from behind, it will appear dark in the picture. Press the shutter button while holding the exposure compensation button down. These situations include a subject in front of a bright window or outdoors with the sun shining from behind. To minimize subjects from appearing dark use this function.



The exposure compensation button applies approximately + 1.5 step compensation.

Set the flash selector to OFF.

### (5) Macro-Photography

1. Press down and slide the macro selector in the direction of the arrow.



Macro Indicator

A red macro indicator appears on the right side of the viewfinder.

You can take close-up pictures of flowers, insects, etc., 12in./30cm from the camera.

2. Shoot at the position 12" /30cm from the subject. The distance is measured from the Macro selector to the subject.



- ★ After macrophotography, do not forget to return the macro selector to the normal position.
- In macro flash photography some subjects may appear overexposed due to their characteristics. If a test
  shot is too light, set the flash selector to OFF and use a different light source. These subjects include:
  - 1. Shiny objects, e.g., metal or glass
  - 2. Printed material or photographs for copying
  - 3. White or very light-colored subjects

## (6) Self-timer Photography

1. Press the mode button until 🖄 appears in the display panel.



★ The Action Grip (sold separately) is required to attach a tripod. 2. Look into the viewfinder, compose the picture, and press the shutter button completely.



The self-timer indicator blinks for about 10 seconds before the picture is taken. It blinks faster for about 2 seconds just before shutter release.

\* To cancel the self-timer, set the main switch to LOCK, or change the shooting mode.

# 5. Viewing Pictures

## (1) Connecting the Camera to a TV

When using a wall outlet via the AC coupler and the battery charger.
Connecting the camera to a TV with a video-in terminal



- Connect the VIDEO terminal on the AC Coupler AV-C25 (battery charger side) and the VIDEO IN terminal on the TV with the Pin Cable KE-PIN.
- 2. Connect the mini plug on the AC Coupler AV-C25 to the VIDEO OUT terminal on the camera.
- 3. Turn the TV ON and set the TV/Video selector to Video.

#### Connecting the camera to a TV without a video-in terminal

Use the Canon RF Unit RF-301 (sold separately). See the instruction manual for the RF-301 for connection.



- ★ Never connect any plug other than the specified mini plug, on the KE-M2P or AC coupler to the VIDEO OUT terminal on RC-250.
- ★ The coupler terminal on BA-24P only accepts the AV-C25. Other attachments may create a fire hazard.

#### When using the Battery Pack BP-4P Connect the camera to a TV as shown here.



Turn the TV ON and set the TV/Video selector to Video.

- ★ For extended viewing and erasing of pictures, use the AC coupler and the battery charger.
- ★ Be sure to remove the Mini Plug-Pin Cable KE-M2P when taking pictures.

## (2) Viewing Pictures

- 1. Load a recorded video floppy disk in the camera.
- 2. Set the main switch to PLAY.



Track number "1" appears in the display panel and the picture recorded in the first track of the disk is shown on the TV screen. 3. Press the forward-feed button to advance to the next track and press the reverse-feed button to go back.



The screen shows the next picture each time you press the forward or reverse-feed button. Pictures keep changing (4 pictures fed per second) when you hold the button down.

- \* The picture does not change even if you press the forward-feed button when the current track number is 50 or the reverse-feed button when the current track number is 1.
- \* If pictures do not appear on the screen, see page 38.

#### 4. After viewing pictures



Press the disk eject button and remove the video floppy disk from the camera, or set the main switch to LOCK. Playback is automatically cancelled when the same image is shown more than 2 minutes, when using the battery pack, or 15 minutes when using the battery charger and AC coupler. Playback is restored by pressing the shutter button halfway.

- \* Do not forget the automatic stop feature when making prints. You can continue printing without interruption by pressing the shutter button halfway before the auto stop feature activates.
- \* Please note that the picture quality will decrease slightly when taking pictures under a very warm temperatures, or when taking pictures after viewing pictures over a long time.
\* Scanning Mode Selector

This selector is located on the bottom of the camera and used to switch the scanning mode to the interlace or non-interlace format during playback.

It is set to Non-interlace at assembly. Set it to Interlace when the camera is connected to video equipment that only accepts interlace output, i.e., a video printer or a digital TV.



# 6. Erasing Pictures

Make the same connections as explained in viewing pictures.

- 1. Load a video floppy disk in the camera.
- 2. Set the main switch to ERASE (PLAY).
- 3. Press the forward-feed or reverse-feed button until the picture to be erased appears on the TV screen.



4. With the mode button held down, press the shutter button all the way.



The picture disappears from the screen and the track number in the display panel blinks twice. The picture is erased then.

\* Do not press the disk eject button or disconnect the power before erasing finishes. Otherwise the picture may not be erased completely.

# 7. Troubleshooting Chart

If the camera fails to work normally, refer to the chart given below. If malfunction persists, consult your dealer or nearest Canon Service Facility.

Problem	Cause	Action	See page
The camera does not work at all.	<ul> <li>The battery power is low.</li> <li>The battery is loaded incorrectly.</li> <li>Poor battery connection.</li> </ul>	Reload the fully-charged battery correctly. Wipe the terminals with a dry cloth and reload the battery.	11
	<ul> <li>The AC coupler and battery charger are not connected cor- rectly.</li> </ul>	Correct connections.	13
	The battery cover is not closed.	Close the battery cover securely.	11
	<ul> <li>The power plug is disconnected.</li> </ul>	Connect the power plug.	13
The shutter does	The main switch is not at REC.	Set the main switch to REC.	18
not release.	• The battery is not loaded or low.	Load a fully-charged battery cor- rectly.	11
	A video floppy disk is not loaded.	Load a video floppy disk.	16
	The disk is full.	Load a new video floppy disk.	15
	The erasure prevention tab is broken.	Load a new video floppy disk or cover the tab area with a seal or tape.	9

Pictures cannot be viewed.	A TV is not connected correctly to the camera.	Correct connections.	30
	<ul> <li>The main switch is not at PLAY.</li> <li>Video floppy disk is blank.</li> </ul>	Set the main switch to PLAY. Load a recorded video floppy disk.	33
	The automatic stop feature is activated.	Press the shutter button halfway.	34
	• The TV/Video switch of the TV, RF/Video selector of AC coupler or the channel switch of the RF unit is not set correctly.	Set switches correctly. See the instruction manuals of the TV, AC coupler or RF unit.	
Pictures cannot be erased.	<ul> <li>The main switch is not at ERASE (PLAY).</li> <li>The erasure prevention tab of</li> </ul>	Set the main switch to ERASE (PLAY) Cover the tab area with a seal or	36 9
	the video floppy disk has broken off.	tape.	Ũ
Pictures do not look clear.	<ul> <li>A motor or other noise source is near the camera or the TV.</li> </ul>	Remove the noise source.	
	<ul> <li>The video floppy disk is defective.</li> </ul>	If there are no problems when a different disk is used for viewing, the disk might be damaged. Do not use defective disks.	
	The video head is dirty.	Clean the video head	39

### Video head cleaning

When the video head gets dirty, the recording/playing ability deteriorates, resulting in a fuzzy screen display or sometimes no recording.

Clean the video head with the Canon Head Cleaning Disk VF-CD. Read the instruction manual for the cleaning disk carefully before using it.

Be sure to remove the cleaning disk (VF-CD) after three seconds to prevent damage to the head.

### Video head wear

The video head may be worn if cleaning does not improve its recording or playing quality. A worn video head needs to be replaced. Consult your dealer or nearest Canon Service Facility.

## Condensation

When moving the camera or video floppy disks from a cold environment to a very warm place, water droplets may form. This is called condensation and may cause trouble. To prevent condensation, put the camera and video floppy disks in a plastic bag and when carrying them to a warm place adapt it to the ambient temperature. If dew should form, remove the video floppy disk from the camera and leave them for several hours until they are dry.

### Liquid Crystal

This camera uses liquid crystal in the display panel. Lack of contrast or blur may occur after about 5 years of normal use. Consult your nearest Canon Service Facility for replacement. The liquid crystal may respond relatively slow in low temperatures and the display may become dark at high temperatures (about 60°C/140°F). Normal functioning will return at room temperature.

# 8. Specifications

## Recording

needianig	
Туре:	Lens-shutter still video camera
Image Pickup Element:	CCD image sensor
Screen Size:	
Screen Size.	6.4(H) × 4.8(V)mm (equivalent to that of a 1/2 inch
	image pickup tube)
Recording System:	Complies with the high-band format of the still
	video floppy system; field recording of 50 pictures
Recording Medium:	Video floppy disk
Lens:	11mm f/2.8 fixed focus (equivalent to 60mm in a
Echij.	35mm camera)
Shooting Range:	1.0m - $\infty/30$ cm from the imaging plane for macro
	photography
Viewfider	
Type:	Real image secondary imaging finder (with built-in
	dioptric adjustment from $-4$ diopter to $+2$
	diopter)
Magnification	X0.55
Magnification:	
Finder Coverage:	84%
Shutter	
Туре:	Programmed shutter; also serves as diaphragm
	blades
Light Metering System:	Feedback AE with external metering sensor (SPC)
	and CCD signal
Exposure Control	5
Exposure Control:	Programmed AE (1/30sec f/2.8 - 1/500sec f/22)
Metering Range:	EV 8 - 18 (at ISO 100)

Exposure Compensation: White Balance: Shooting Modes:	+ 1.5 EV approx. Automatic tracking system by external sensor Single-Shot Continuous Approx. 3 pictures/sec Self-timer Approx. 10-second delay
Built-in Flash:	Light amount adjusting type with three modes (AUTO/ON/OFF)
Guide Number:	23•ft/7•m (at ISO 100)
Flash Coupling Range:	Within approx. 10ft./3m
Playback	
System:	Complies with the high-band format of still video floppy system.
Medium:	Video floppy disk
Video Signal:	NTSC color, EIA standard
Output:	Video signal: $1Vp$ -p $75\Omega$ unbalanced ( $\phi$ 2.5 mm mini jack)
Horizontal Resolution:	Recording/playback: 300 TV lines Playback: 400 TV lines
Erasing Time:	Approx. 1.5 sec per picture
Displays:	Viewfinder: LED indicator remaining lit or blinking (out of low- luminance coupling; flash charging/charge comple- tion; errors) Macro photography LCD panel:

#### **Power Source:**

Tripod Socket: Operating Temperature and Humidity: Dimensions: Weight:

- 7-segment digit and character display (track number, disk condition, error)
- (2) Shooting mode display
- (3) Low battery warning/battery replacement display

Lead storage battery Canon Battery Pack BP-4P (8V, 200mAh); takes approx. 800 pictures when fully charged (at normal temperature without flash use); displays pictures for  $10 \sim 15$  minutes continuously; takes approx.  $200 \sim 300$  pictures with 25% flash usage (Based on Canon's standard test method.)

Provided on the action grip AG-C25 (optional) 32°F - 104°F (0°C - +40°C) 90% max.

 $5-9/16" \times 1-3/8" \times 4-3/16"$  (142 × 34.5 × 106 mm) Approx. 14.8 ozs (420g) (without battery pack) (All data based on Canon's Standard Test Method.)

- Subject to change without notice.
- Viewing by RC-250 can only be done on an NTSCformat TV.

# FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications set forth in Subpart J of Part 15 of the FCC Rules. If this equipment does cause interference to radio or television reception which can be determined by turning the equipment on and off, use the equipment in another location. If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

#### "INTERFERENCE HANDBOOK"

This booklet is available from the U.S. Government Printing Office. Washington, DC 20402, Stock No. 004-000-00450-7.

## DOC NOTICE

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

The serial number of this product may be found on the bottom. No others have the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft.

Date of Purchase Dealer Purchased From Dealer Address Dealer Phone No. Model No. RC-250 Serial No. COPYRIGHT WARNING: Unauthorized recording of copyright materials may be in violation of copyright laws. 43

## Accessories

Following accessories are available from Canon for extending the use of your RC-250

### Accessory Kit AK-C25

- Battery Charger BA-24P
- Battery Pack BP-4P
- AC Coupler AV-C25
- Mini Plug-Pin Cable KE-M2P
- Pin Cable KE-PIN
- Video Floppy Disk VF-50
- Action Set AS-C25
  - Action Grip AG-C25
  - Teleconverter TC-C2513



Action Set AS-C25

- Other Accessories
  - System Bag SB-C25 (for Accessory Kit AK-C25)



- RF Unit RF-301 (for connecting AC Coupler to a TV without a VIDEO IN terminal)
- Connecting Cord KE-M23 (for connecting to a liquid crystal-TV; has a 2.5mm φ plug for the RC-250 and a 3.5mm φ plug for the liquid crystal-TV)

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