
KODAK Zx1 Pocket Video Camera



Extended user guide

www.kodak.com

For interactive tutorials:

www.kodak.com/go/howto

For help with your camera:

www.kodak.com/go/Zx1support

Kodak

Eastman Kodak Company
Rochester, New York 14650
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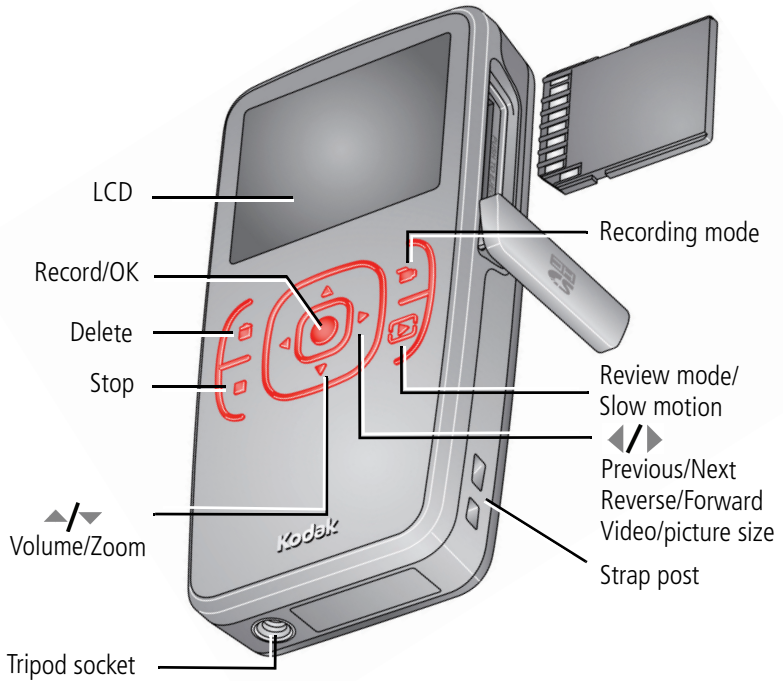
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4H5155_en

Front view



Back view



Understanding the status icons

Recording icons



Playback icons



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1

Setting up your camera

IMPORTANT: *Your camera is water resistant—it is not waterproof.
Do not submerge your camera in liquid.*

Charging, loading the rechargeable batteries



Compatible

KODAK Batteries

- KODAK Li-Ion Rechargeable Digital Camera Battery KLIC-8000
- KODAK Lithium Digital Camera Battery CRV3
- KODAK AA Batteries (Ni-MH, alkaline)

Using an optional KODAK SD or SDHC Card

Your camera has internal memory, but we recommend a KODAK SD or SDHC Card to conveniently store more videos/pictures.



CAUTION:

A card can only be inserted one way; forcing it may cause damage. Inserting or removing a card while the camera is on may damage the pictures, the card, or the camera.



- 1 Turn off the camera.
- 2 Insert or remove the optional card.
- 3 Turn on the camera.

Purchase accessories

www.kodak.com/go/Zx1accessories

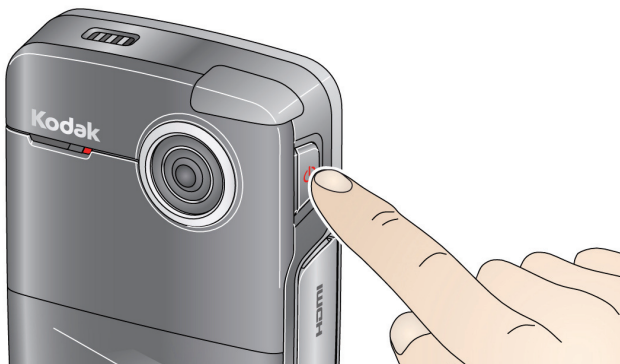
Connecting the strap



2

Using your camera

Turning on the camera



Setting the date/time



Date/Time:

At the prompt, press OK.

▲/▼ to change current field.

◀/▶ for previous/next field.

OK to accept.

NOTE: To change the date & time later, [see page 10](#).

Recording



When you turn on the camera, it's ready to take videos.

- (OK) Start/stop recording
- ⏏ Zoom in/out
- ⏏ Choose a mode:
 - HD: 16:9, 720p @ 30 fps (HDTV)
 - HD60: 16:9, 720p @ 60 fps (HDTV)
 - Still (3 MP pictures)
 - VGA: 4:3, 640 x 480 @ 30 fps (Web-ready)

NOTE: To take even more videos, insert an SD or SDHC Card.

Purchase accessories www.kodak.com/go/Zx1accessories

Use the optional remote control [see page 8](#)

Playing videos



Review button (press again for thumbnails, timeline)



(OK) Play/Pause



Stop video playback



Delete the current or all videos/pictures



Volume

Previous/next video

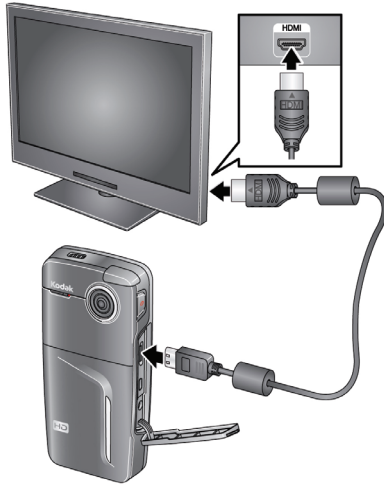
During playback, press to fast-forward or fast-rewind 2X, 4X, 8X, 16X.

While paused, press to forward/reverse one frame at a time.

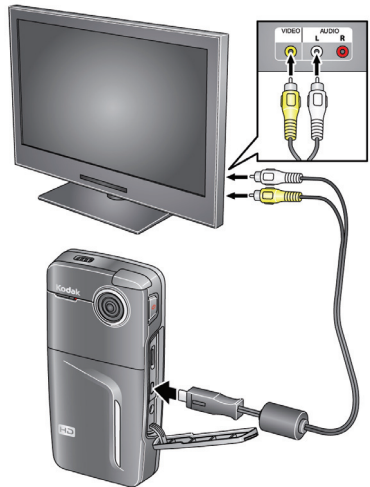
To use the optional remote control, [see page 8](#).

Playing back on a TV

HDMI cable
(for HD quality)



AV cable
(for VGA quality)



To set Video Out (NTSC/PAL), see [page 10](#).

Save battery power



To save battery power, use the optional AC adapter to power the camera. Visit www.kodak.com/go/Zx1accessories.

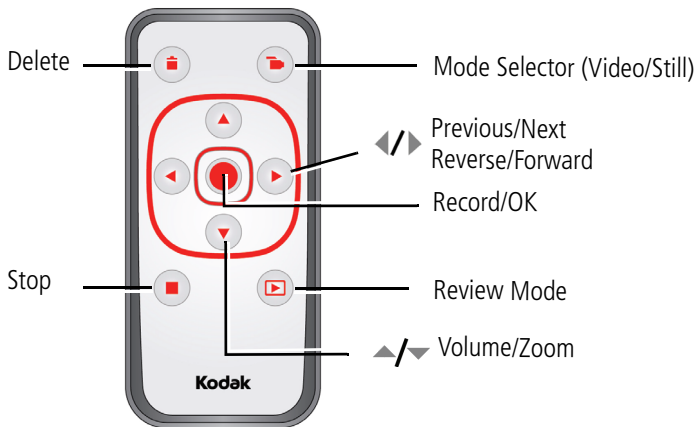
Using the optional remote control

Use the optional remote control to start/stop recording, take a picture, and review videos and pictures. Visit www.kodak.com/go/Zx1accessories.

Remove the tab to activate the battery



Using the remote control



Transferring, editing, sharing online

- ① Connect, then turn on the camera.
- ② If this is the first time you've connected to this WINDOWS OS-based PC, follow the prompts to install ARCSOFT MEDIAIMPRESSION for Kodak Software. You can then transfer and share videos.



Video and pictures from the Zx1 Camera can be used with the APPLE ILIFE suite of products to edit, personalize, make DVDs, share via YouTube™ and APPLE Online Sharing Services (IWEB and MOBILEME), or with ITUNES for syncing with IPHONE, IPOD, or APPLE TV.

Get ArcSoft product support www.arcsoft.com/support

Accessing settings



When the camera is on, press any two buttons to access the Setup menu.

Date/Time

Set the date and time.

Sounds

■ On



■ Off



Video Out

Choose the regional setting that lets you connect the camera to a television or other external device.

■ NTSC

■ PAL

Format SD/SDHC Card

Deletes everything on the card; formats the card.



CAUTION:

Formatting deletes all videos/pictures. Removing a card during formatting may damage the card.

NOTE: The firmware version is displayed at the top of the Settings screen.

3

Getting help

Getting help on the Web

Camera

Email, write, or phone Kodak	www.kodak.com/go/contact
Get support for your product (FAQs, troubleshooting information, arrange for repairs, etc.)	www.kodak.com/go/Zx1support
Get support for accessories	www.kodak.com/go/support
Purchase camera accessories (lenses, cards, etc.)	www.kodak.com/go/Zx1accessories
Download the latest camera firmware and software	www.kodak.com/go/Zx1downloads
See online demonstrations of your camera	www.kodak.com/go/howto
Register your camera	www.kodak.com/go/register

Software

Get information on ARCSOFT Software	www.arcsoft.com/support
Get help with the WINDOWS OS and working with digital pictures	www.kodak.com/go/pcbasics






Getting help on the telephone

NOTE: If you have questions concerning this product, you may speak with Kodak customer support.

Australia	1800 267 588	Netherlands	020 346 9372
Austria	0179 567 357	New Zealand	0800 880 120
Belgium	02 713 14 45	Norway	23 16 21 33
Brazil	0800 891 42 13	Philippines	1 800 1 888 9600
Canada	1 800 465 6325	Poland	00800 4411625
China	800 820 6027	Portugal	021 415 4125
Czech Republic	00 800 56325000	Russia	8 495 929 9166
Denmark	3 848 71 30	Singapore	800 6363 036
Finland	0800 1 17056	Slovakia	00 800 56325000
France	01 55 1740 77	Spain	91 749 76 53
Germany	069 5007 0035	Sweden	08 587 704 21
Greece	00800 44140775	Switzerland	044 838 53 51
Hong Kong	800 901 514	Taiwan	0800 096 868
Hungary	06 80 456 325	Thailand	001 800 631 0017
India	91 80 41374555 (toll free 000800 440 1227)	Turkey	00800 448827073
Ireland	01 407 3054	United Kingdom	0870 243 0270
Italy	02 696 33452	United States	1 800 235 6325
Japan	03 5540 9002	International Toll Line	+44 131 458 6714
Korea	080 708 5600	International Toll Fax	+44 131 458 6962

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Troubleshooting

Status	Solution
	<ul style="list-style-type: none">■ Unrecognized or corrupt file. Transfer videos/pictures to your computer using the USB cable or an optional card reader. Then format the card in the camera or card reader.■ An error may have occurred while formatting the card. Transfer videos/pictures to your computer using the USB cable or an optional card reader. Then format the card in the camera or card reader.
	<ul style="list-style-type: none">■ The memory card is either unrecognized by the device, or is not formatted. Transfer videos/pictures to your computer using the USB cable or an optional card reader. Then format the card in the camera.■ Try another card.
	<ul style="list-style-type: none">■ Card is nearly full. Transfer videos/pictures to your computer using the USB cable or an optional card reader.■ Unrecognized or corrupt file. Transfer videos/pictures to your computer using the USB cable or an optional card reader. Then format the card in the camera.■ Try another card.
	<ul style="list-style-type: none">■ Low batteries. Charge the batteries.
	<ul style="list-style-type: none">■ Internal memory is full. Transfer videos/pictures to your computer using the USB cable. Use an SD/SDHC card to take more video/pictures.

Status	Solution
Camera will not turn on.	<ul style="list-style-type: none">■ Ensure batteries are correctly inserted.■ Charge the batteries.■ If camera still does not turn on, visit www.kodak.com/go/Zx1support and click Step-by-Step Solutions & Repair.
Videos do not play on a TV.	<ul style="list-style-type: none">■ Ensure an HDMI or AV cable is properly connected directly to the TV input(s).■ Ensure TV menu settings are correct for an HDMI or AV connection.
Camera will not work with optional remote control.	<ul style="list-style-type: none">■ Ensure batteries are correctly inserted in the remote control.■ Ensure batteries are correctly inserted in the camera.■ Ensure the camera infrared receiver (above the lens) and the remote control have an unobstructed path.
Images are blurry.	<ul style="list-style-type: none">■ Ensure lens is clean of fingerprints.■ Ensure subject is at least 70 cm (27 in.) from camera lens.
Videos are jumpy, not stable.	<ul style="list-style-type: none">■ Use a tripod or mini tripod to steady the camera.
Questions or problems with ARCSOFT Software.	<ul style="list-style-type: none">■ Visit www.arcsoft.com/support.
Questions or problems with other third party software.	<ul style="list-style-type: none">■ Visit support sites for those applications.

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Appendix


Specifications

Image Sensor—1/4.5-type, 1.6 MP, CMOS

Lens—4.1 mm, f/2.8, fixed focus

Zoom—2X digital

LCD—5 cm (2 in.); 640 x 240 pixels

Image Storage—128 MB internal memory (approximately 10 MB available for image storage. 1 MB equals one million bytes); optional SD/SDHC Card  (The SD logo is a trademark of the SD Card Association.) Maximum supported size: 32 GB SDHC (class 6 recommended).

Focusing System—Fixed

Focus Mode—Normal

Focus Range—70 cm (27.6 in.)–infinity

Aperture—f/2.8

White Balance—Auto

Exposure—Auto

Shutter Speed—Auto

File Format—Still: JPEG (2048 x 1536); Video: H.264 (MOV), AAC LC

- HD: 16:9, 720p @ 30 fps (HDTV)
- HD60: 16:9, 720p @ 60 fps (HDTV)
- Still (3 MP pictures)
- VGA: 4:3, 640 x 480 @ 30 fps (Web-ready)

Microphone—Yes

Speaker—Yes

I/O Interface—USB 2.0 (high speed); component output; AV output

Tripod Mount—1/4-in. standard

Power—5V AC adapter, or:

- KODAK AA Batteries (Ni-MH, alkaline)
- KODAK Li-Ion Rechargeable Digital Camera Battery KLIC-8000
- KODAK Lithium Digital Camera Battery CRV3

Size—20 x 107 x 50.1 mm (0.8 x 4.2 x 2 in.)

Weight—110 g (3.9 oz) without batteries

Safety



CAUTION:

Do not disassemble this product; there are no user-serviceable parts inside. Refer servicing to qualified service personnel. KODAK AC Adapters and battery chargers are intended for indoor use only. The use of controls, adjustments, or procedures other than those specified herein may result in exposure to shock and/or electrical or mechanical hazards. If the LCD breaks, do not touch the glass or liquid. Contact Kodak customer support.

- The use of an accessory that is not recommended by Kodak may cause fire, electric shock, or injury. For approved accessories, visit www.kodak.com/go/accessories.
- Use only a USB-certified computer equipped with a current-limiting motherboard. Contact your computer manufacturer if you have questions.
- If using this product in an airplane, observe all instructions of the airline.
- When removing batteries, allow them to cool; they may be hot.
- Follow all warnings and instructions supplied by the battery manufacturer.
- Use only batteries approved for this product to avoid risk of explosion.

- Keep batteries out of the reach of children.
- Do not allow batteries to touch metal objects, including coins. Otherwise, a battery may short circuit, discharge energy, become hot, or leak.
- Do not disassemble, install backward, or expose batteries to liquid, moisture, fire, or extreme temperature.
- Remove the batteries when the product is stored. In the unlikely event that battery fluid leaks inside the product, contact Kodak customer support.
- In the unlikely event that battery fluid leaks onto your skin, wash immediately with water and contact your local health provider. For additional health-related information, contact your local Kodak customer support.
- Dispose of batteries according to local and national regulations. Visit www.kodak.com/go/kes.
- Do not charge non-rechargeable batteries.
For more information on batteries, see www.kodak.com/go/batterytupes.

Care and maintenance

- If you suspect water has gotten inside the camera, remove the battery and card. Allow all components to air-dry for at least 24 hours before using the camera.
- Blow gently on the lens or LCD to remove dust and dirt. Wipe gently with a soft, lint-free cloth or an untreated lens-cleaning tissue. Do not use cleaning solutions unless designed specifically for camera lenses. Do not allow chemicals, such as suntan lotion, to contact painted surfaces.
- Service agreements may be available in your country. Contact a dealer of KODAK Products for more information.
- For camera disposal or recycling information, contact your local authorities. In the US, visit the Electronics Industry Alliance Web site at www.eiae.org or www.kodak.com/go/Zx1support.

Warranty

Limited Warranty

Kodak warrants KODAK Consumer Electronic Products and Accessories ("Products"), excluding batteries, to be free from malfunctions and defects in both materials and workmanship for one year from the date of purchase. Retain the original dated sales receipt. Proof of the date of purchase will be required with any request for warranty repair.

Limited warranty coverage

Warranty service is only available from within the country where the Products were originally purchased. You may be required to ship Products, at your expense, to the authorized service facility for the country where the Products were purchased. Kodak will repair or replace Products if they fail to function properly during the warranty period, subject to any conditions and/or limitations stated herein. Warranty service will include all labor as well as any necessary adjustments and/or replacement parts. If Kodak is unable to repair or replace a Product, Kodak will, at its option, refund the purchase price paid for the Product provided the Product has been returned to Kodak along with proof of the purchase price paid. Repair, replacement, or refund of the purchase price are the sole remedies under the warranty. If replacement parts are used in making repairs, those parts may be remanufactured, or may contain remanufactured materials. If it is necessary to replace the entire Product, it may be replaced with a remanufactured Product. Remanufactured Products, parts and materials are warranted for the remaining warranty term of the original Product, or 90 days after the date of repair or replacement, whichever is longer.

Limitations

This warranty does not cover circumstances beyond Kodak's control. This warranty does not apply when failure is due to shipping damage, accident, alteration, modification, unauthorized service, misuse, abuse, use with incompatible accessories or attachments (such as third party ink or ink tanks), failure to follow Kodak's operation, maintenance or repacking instructions, failure to use items supplied by Kodak (such as adapters and cables), or claims made after the duration of this

warranty. **Kodak makes no other express or implied warranty for this product, and disclaims the implied warranties of merchantability and fitness for a particular purpose.** In the event that the exclusion of any implied warranty is ineffective under the law, the duration of the implied warranty will be one year from the purchase date or such longer period as required by law. The option of repair, replacement, or refund is Kodak's only obligation. Kodak will not be responsible for any special, consequential or incidental damages resulting from the sale, purchase, or use of this product regardless of the cause. Liability for any special, consequential or incidental damages (including but not limited to loss of revenue or profit, downtime costs, loss of the use of the equipment, cost of substitute equipment, facilities or services, or claims of your customers for such damages resulting from the purchase, use, or failure of the Product), regardless of cause or for breach of any written or implied warranty is expressly disclaimed.

Your rights

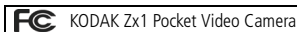
Some states or jurisdictions do not allow exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states or jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific rights, and you may have other rights which vary from state to state or by jurisdiction.

Outside the United States and Canada

In countries other than the United States and Canada, the terms and conditions of this warranty may be different. Unless a specific Kodak warranty is communicated to the purchaser in writing by a Kodak company, no warranty or liability exists beyond any minimum requirements imposed by law, even though defect, damage, or loss may be by negligence or other act.

Regulatory compliance

FCC compliance and advisory



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 or 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: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver; 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for additional suggestions. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulation.

This device complies with Industry Canada RSS-210 and 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.

FCC et Industrie Canada

Cet appareil est conforme à la norme RSS-210 d'Industrie Canada et aux réglementations de la FCC. Son utilisation est soumise aux deux conditions suivantes : (1) cet appareil ne doit pas provoquer d'interférences nuisibles, et (2) cet appareil doit supporter les interférences reçues, y compris celles susceptibles de nuire à son bon fonctionnement.

Waste Electrical and Electronic Equipment labeling



In Europe: For human/environmental protection, it is your responsibility to dispose of this equipment at a collection facility established for this purpose (separate from municipal waste). For more information, contact your retailer, collection facility, or appropriate local authorities; or visit www.kodak.com/go/recycle.

VCCI Class B ITE

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

Korean Class B ITE

B급 기기 (가정용 방송통신기기)	이 기기는 가정용(B급)으로 전자파적합등록을 한 기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.
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Russian GOST-R



Eastman Kodak Company
Rochester, NY 14650

Фотокамера изготовлена в Китае; остальные элементы - в соответствии с маркировкой.

A10-40

China RoHS

环保使用期限 (EPUP)

在中国大陆，该值表示产品中存在的任何危险物质不得释放，以免危及人身健康、财产或环境的时间期限（以年计）。该值根据表中所规定的产品正常使用而定。

有毒有害物质或元素名称及含量标识表						
部件名称	有毒有害物质或元素					
	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
数码摄像机电路板组件	×	○	○	○	○	○
电池充电器	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T 11363-2006规定的限量要求以下。
 ×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006规定的限量要求。



HDMI 电缆 (HDMI Cable)



音频/视频电缆 (Audio/Video Cable)



USB 数据线 (USB Cable)

Canadian DOC statement

DOC Class B Compliance—This Class B digital apparatus complies with Canadian ICES-003.

Observation des normes-Classe B—Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FCC and Industry Canada

This device complies with Industry Canada RSS-210 and 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.

FCC et Industrie Canada

Cet appareil est conforme à la norme RSS-210 d'Industrie Canada et aux réglementations de la FCC. Son utilisation est soumise aux deux conditions suivantes : (1) cet appareil ne doit pas provoquer d'interférences nuisibles, et (2) cet appareil doit supporter les interférences reçues, y compris celles susceptibles de nuire à son bon fonctionnement.

Australian C-Tick



N137

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