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FCC STATEMENT

FCC part 15.105

This device complies with part 15 of 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 part 15.21

Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio TV technician for help.

Pertinent testing documentation is available for verification.

Preface

Thank you for purchasing this Video Recorder. Please read this Manual carefully and keep in a safe place for further reference.

Note: The product Specifications and these operating instructions are printed based on latest available information and are subject to change without prior notice. The specifications of the particular video recorder you have purchased may slightly vary from this printed data.

Maintenance and precautions for the video recorder

Recorder is not waterproof. Keep and store your recorder away from humid, dusty and harmful chemical environment. Do not use an organic solvent to clean lens. Do not store or operate the recorder under extremely hot or cold ambient conditions. Keep recorder clean and take care to avoid scratching or damaging of the housing and the lens. Blow dust away and use soft cloth if the lens becomes dirty or contaminated.

Remove batteries if you are not planning to use recorder for extended time.

Maintenance and precautions for SD/ SDHC Memory card

SD/ SDHC Memory Card

Contact pins / connectors

Write protection LOCK switch
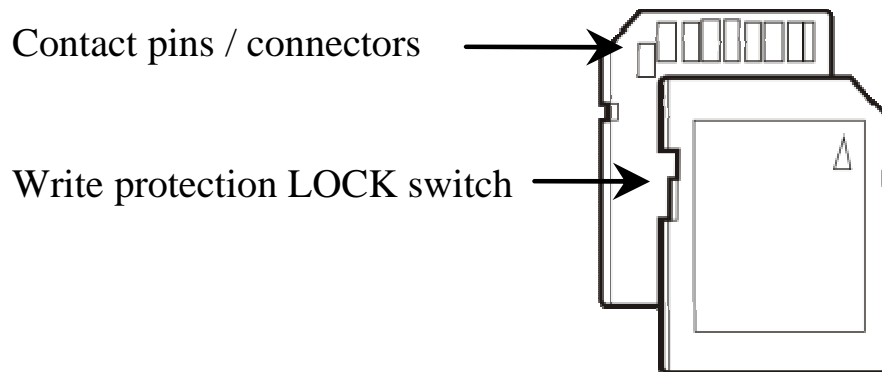
- Please note that the SD/ SDHC card has tiny LOCK slider on the side for write protection of the SD/ SDHC memory card that helps avoid inadvertent deletion of image files. Set this slider to "un-LOCK" position for storing still images or recording video.
- SD/ SDHC Memory card is delicate electronic device; do not open, bend and overheat the card.
- Keep the card away from strong magnetic field and dirty / harsh environment.
- ⚠ Note: If your SD/ SDHC card has been used previously with other devices / cameras or is brand new – the card may require to be *formatted* – please ensure you save all valuable records before formatting.
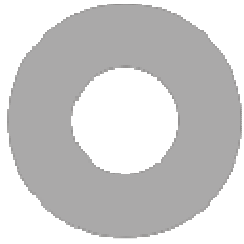
System Requirements

You may use the computer to download images and video from your recorder, edit images, email or post records over the Internet.
Make sure that you computer complies with (below) minimum requirements:

System Requirements	
Operating System	Microsoft Windows XP,VISTA, 7
CPU	Intel Pentium IV 1GB or above CPU
Memory	512MB or higher
Audio & Video Card	DirectX8 Audio & Video Card
CD-ROM Drive	Min 16x
Hard Drive space	1GB or higher available memory space
USB port	Standard USB1.1 or USB2.0 port

Accessories

The following accessories are packed together with the recorder:
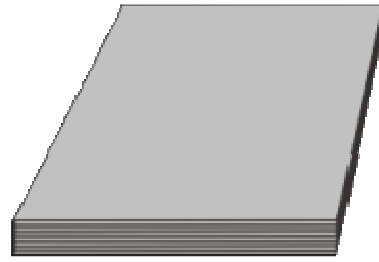
Installation CD   Manual & QSG

Know Your Recorder

Fill light
Microphone

Lens

Up button

Mode button
Speaker
Menu button
Left button

Down button

OK button
Power button

Delete button

Right button

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USB interface

Tripod socket

SD/ SDHC
card slot

USB
Pushbutton

Battery cover

Strap
holder

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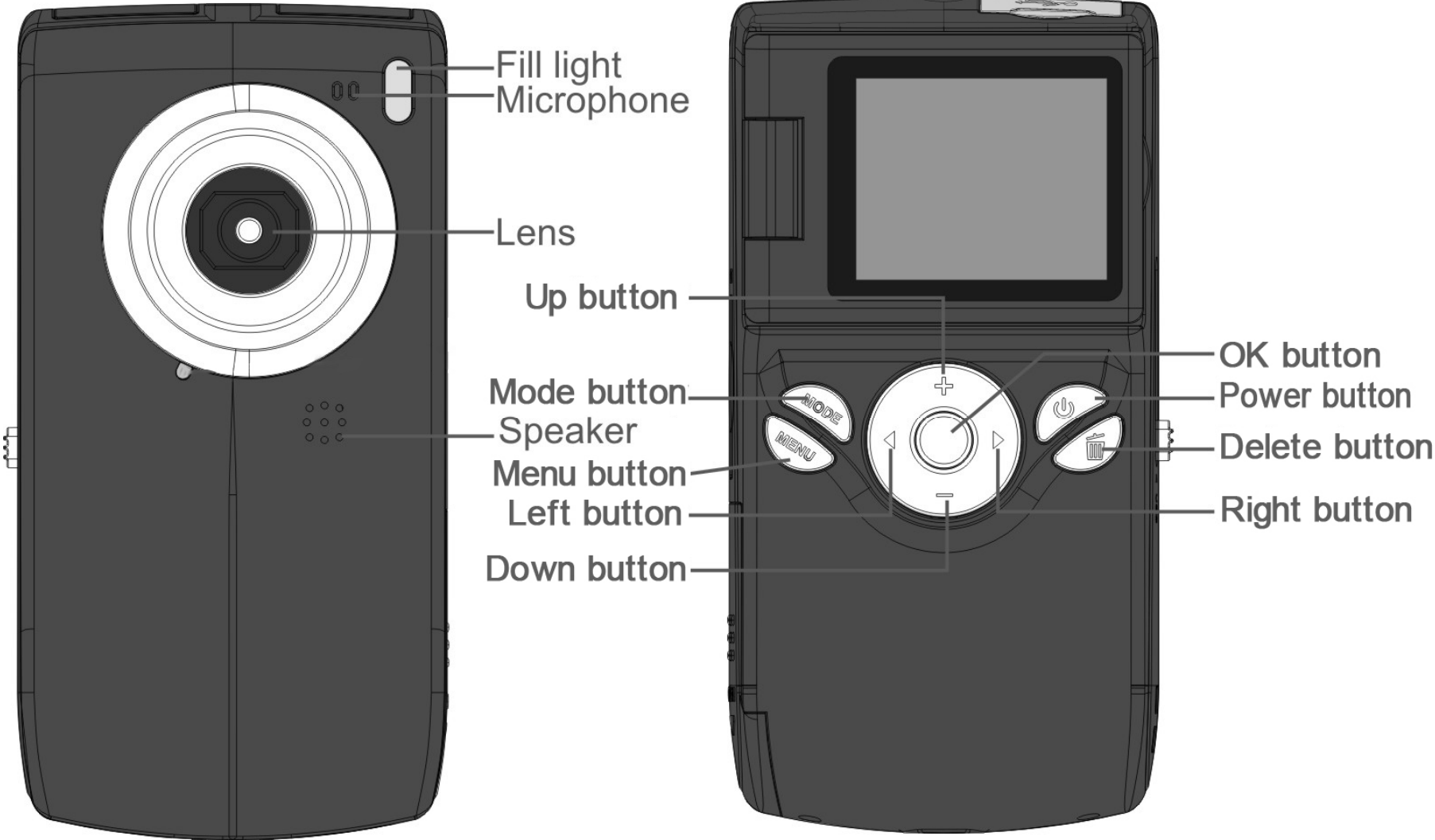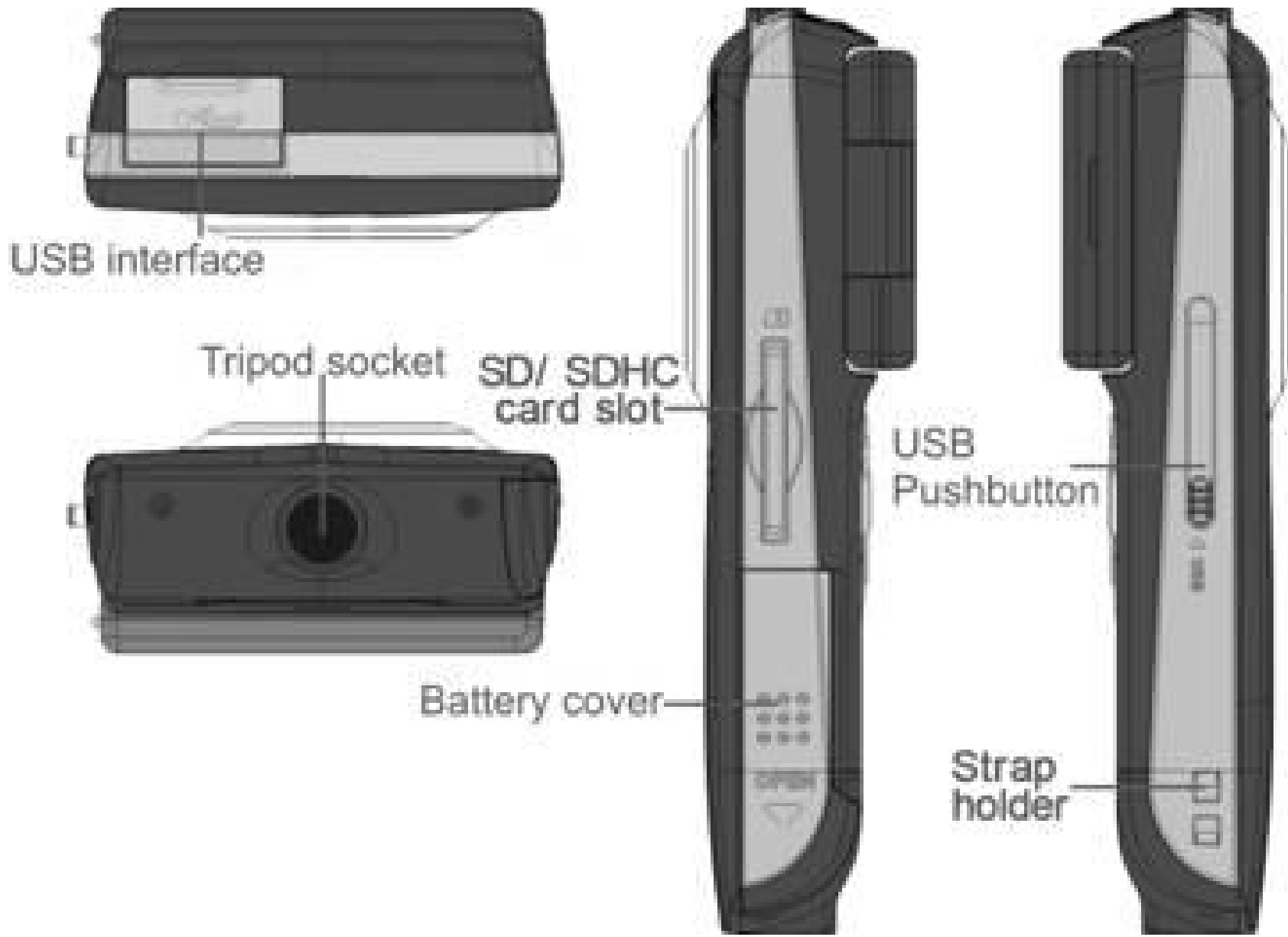
Buttons and Function Indicators

Buttons/Indicator	Function
Power Button	Press to turn recorder ON and OFF
OK Button	Press to Start / Stop Video recording or Take Still Photo. Press to confirm MENU / option changes and start/ stop playing video.
MENU Button	Press to OPEN / CLOSE the MENU selection Press to stop playing video in PLAYBACK mode
MODE Button	Press to select desired MODE: Video Recording, Camera (taking Still Photos), Playback
UP Button	Zooms IN scene, selects MENU option, moves photo upwards (when the photo is enlarged and set at Pan mode) and increases volume of audio sound during playback of video.
DOWN Button	Zooms OUT scene, selects MENU option, moves photo downwards (when the photo is enlarged and set at Pan mode) and decreases volume of audio sound during playback of video. In Playback Mode, press this button to change to Thumbnail Mode.
LEFT Button	Selects files and MENU, moves photos to the left (when the photo is enlarged and set at Pan mode) and changes

	resolution setting in Video Recording or Photo Taking Mode.
RIGHT Button	Selects files and MENU, moves photos to the right (when the photo is enlarged and set at Pan mode) and activates/ turns OFF LED fill light.
Delete Button	Press to delete the selected file in playback mode or the last record in Video Recording/ Still Photo Taking Mode.

Starting to Use

Installing Battery
This recorder uses three AAA alkaline batteries. When replacing batteries, the recorder power should be turned off.
Firstly open battery cover and put into batteries according to tip of positive and negative polarity in the battery box, and then close the cover.

Installing SD/ SDHC Memory Card
Insert the SD/ SDHC memory card into the SD/ SDHC card slot with contact pins inwards according to the tips besides card slot.
To take out the SD/ SDHC memory card, please press it downwards and then pull it out.

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Note：●Turn off the recorder power before card replacement.

●Maintain the right direction when inserting the card. Don't push strongly, otherwise the card or recorder part would be damaged. If card can't be inserted, check the direction.

● Please format the memory card first if it is used for the first time or it has been used in other recorders. Download important files to your computer before formatting as the formatting will erase all data from the SD/ SDHC card.

Format the memory card

Please format the SD/ SDHC card if it is new or if it was used with another device. Download important files to your computer before formatting as the formatting will erase all data from the SD/ SDHC Card.

1.   Turn the Power ON (when the card is inserted) and set the video recorder to the Setup Menu. Press the RIGHT button to select [Setup].

2.   Press the UP or DOWN button to select [Format…]. Then press the OK or RIGHT button to launch the submenu.

3.   Press the UP or DOWN button to select the item [YES] and then press the OK button to execute formatting the card.

Setting the Language

You have an option to select the **Language** used for displayed commands and information; follow below steps if required:

1. Turn the power ON, and set the video recorder to the Setup Menu. Press the **RIGHT** button to select [Setup].

2. Press the **UP** or **DOWN** button to select **[Language]** then press the **OK** or **RIGHT** button to launch the submenu.

3. Press the **UP** or **DOWN** button to select the desired language and then press the **OK** button to confirm the setting.

4. Press the **MENU** button to close the menu.

Setting the date and time

1. Turn the power on and set the video recorder to the Setup Menu.

2. Press the **UP** or **DOWN** button to select **[Date & Time...]** then press the **OK** or **RIGHT** button to launch the submenu.

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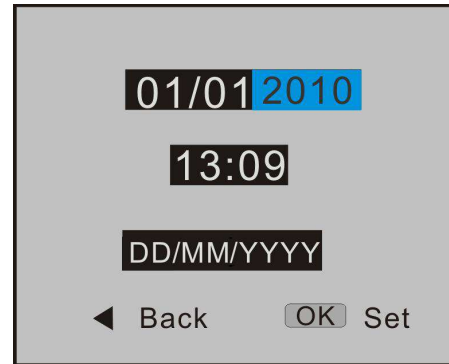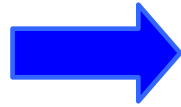
3.　　Press the **RIGHT** button to move the cursor between settings. Press the **UP** or **DOWN** button to change the highlighted value.

4.　　　Press the **OK** button to confirm the setting or press the Left button to escape and return.

5.　　Press the **MENU** button to close the menu.

Note：●The Date & Time will be indicated on Video and Photo file properties, but not visible on the Video and Photo displayed images. The file properties may be read and reviewed on records when reviewing on the computer.

● After replacing batteries you need to reset the time/ date again.

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Turning the recorder ON and OFF

Press the Power button to turn ON the video recorder.

Press the Power button again to turn OFF the recorder.

To save battery power, the recorder automatically turns off after a short period of time if no button is pressed. Press the Power button to power the recorder ON. You can change the power-OFF time (1 min/3 min/ 5 min) by setting the function [Power Save] in the Setup menu.

Changing the MODE of the recorder

Your video recorder has three selectable modes: Video, Photo and Playback mode.

1. Press the POWER button and the recorder will become active and set in Video Recording Mode.
2. Press the MODE button once to select the Photo Taking mode for taking still pictures.
3. Press the MODE button again to select the Playback mode
4. Press the MODE button again to select the Video Recording Mode again.

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The icons – displayed on the LCD screen – will identify selected Mode.

Display	Title	Description
	Video mode	Recording video clips.
	Photo mode	Taking still photos.
	Playback mode	Preview photos and video clips.

Video Recording
In the video mode, you can press the OK button to start recording and press it again to stop recording.
Taking Photo
In the photo mode, press the OK button to take photo.
Playback
In the playback mode, you can browse the photos and play the recorded videos.
Browsing photos: press the Left button or the Right button to choose the photo and press the Up button to magnify it. Press OK button to switch to Pan mode and then press the Up/Down/Left/Right button to move the enlarged image upwards/ downwards/ to the left/ to the right. Press OK button to exit Pan mode.

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Playing back video clips: press the Left /Right button to choose the right video and press the OK button to play; during playing, you can press UP/ Down button to increase/ decrease the volume of audio sound. Press the MENU/ OK button to stop playing.

Menu Setup
In the photo/video and playback mode, press the MENU button to open the menu and the Up/Down/Left/Right button to choose the menu item, and then press the OK/ Right button to enter into the sub-menu. The background of the menu item will be highlighted by a blue bar when choosing menu.

▲Video Menu

▲Photo Menu

Connecting to PC

Before connecting to PC, please install the drivers of the video recorder with the provided CD.

Open the cover of USB Interface on the top of the video recorder and slide out the USB connector. Insert connector into computer USB port. Turn on the video recorder. In USB mode, the video recorder may be used as mobile disk or PC CAM. The video recorder enters mobile disk mode automatically by default. To set the USB mode of the recorder at PCCAM setting, see pages 27-29 for details.

Advanced Operations

Video Mode

The recorder enters into the video mode after switching on.

Press OK button to start recording video. Press OK button again to stop recording.

Press Up or Down button to perform digital zoom.

Press the Right button to open/ close LED fill light, which is disabled in the playback mode.

Photo Mode
Press the MODE button to select photo mode.
Use the LCD screen to frame your subject. Press OK button to take photo.
Press Up or Down button to perform digital zoom.
Press the Right button to open /close LED fill light, which is disabled in the playback mode.

Note：●To gain clear photos, hold the recorder steadily and place it on some supports, such as tripod, when recording.
● The number displayed on the LCD screen will decrease with each photo taken.
●No more pictures/ video can be taken if the "Memory Full" message appears on the LCD screen – replace the SD/ SDHC card or download stored images into the computer.
●LED fill light has limited range – use additional or auxiliary light sources when recording video or taking photo in low light conditions.
●Do not remove the memory card or batteries when recorder is saving the image, otherwise the data will be damaged.

◆ Screen Information in Photo/Video Mode
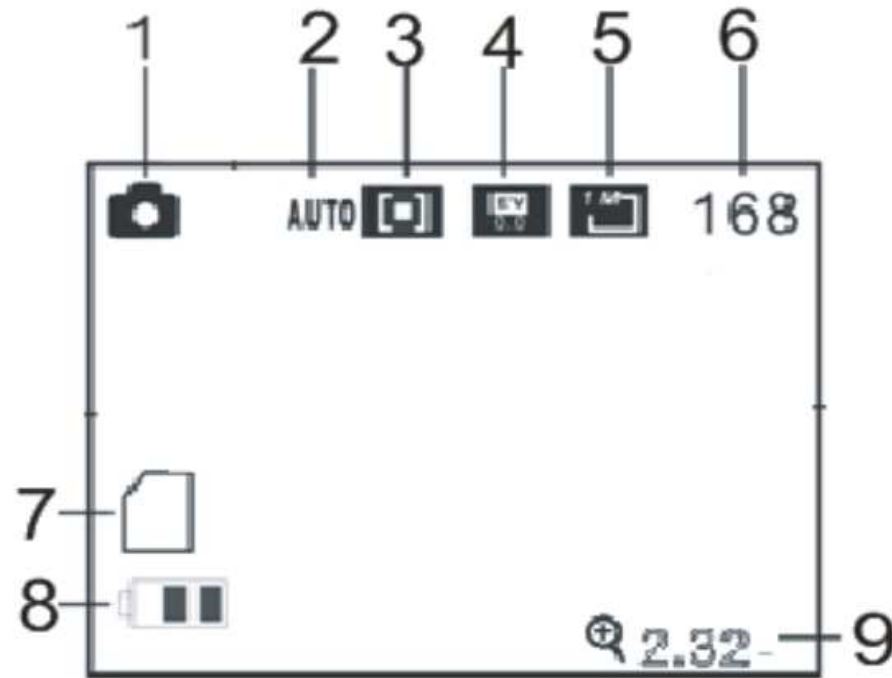
Screen Information in Photo Mode
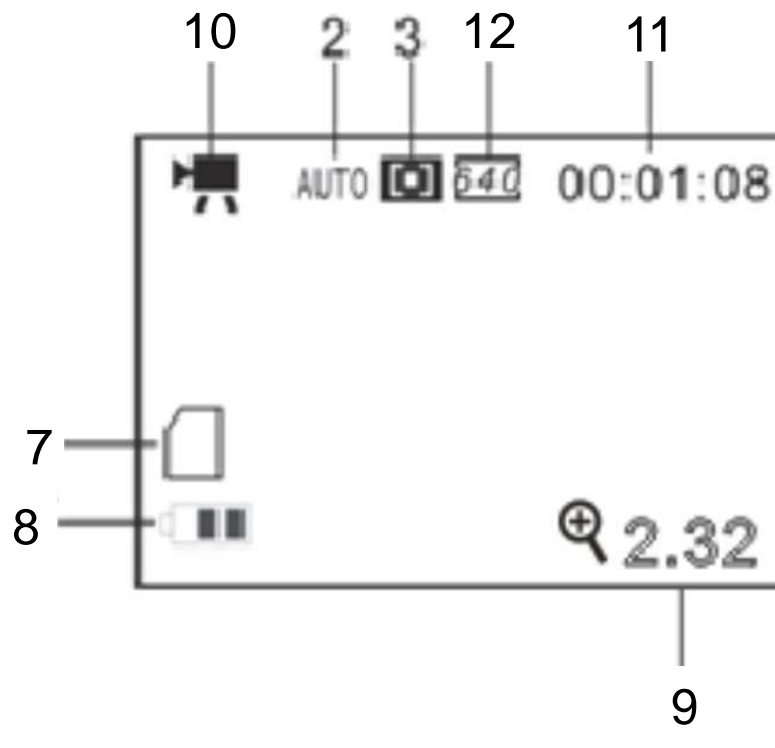
Screen Information in Video Mode

Menu Options in Photo Mode:

No.	Icon Name	Explanation
1	Photo Mode	Indicates that the recorder is in photo mode, you can press the OK button to take photo
2	White Balance	Indicates the current setup of the white balance

3	Metering Mode	Indicates the metering mode setting of the recorder
4	Exposure	Indicates the current selected exposure value
5	Image Size	Indicates the current photo resolution
6	Available photos	Indicates remaining number of photos to be taken
7	SD Card	⬜ Indicates memory card inserted ; 🔲 indicates the inserted SD card has write-protection
8	Battery Power	Indicates current battery state. When red the battery is very low and recorder will power off automatically
9	Zoom Indication	Indicates the current digital zoom ratio
10	Video Mode	Indicates the recorder is in the video mode and you can press OK button to record
11	Recording Time	Indicates left recording time in the idle mode; indicates used recording time in video mode
12	Video Format	Indicates current video resolution

◆ Using the Menu in recording modes

Press the MENU button to open video/photo main menu and Up/ Down button to select menu item, then press OK/ Right button to enter into the sub-menu. In the sub-menu, you can press the Left button to return to the main menu, or press the Up/Down button to select sub-menu item and the OK button to confirm. After returning to the main menu, you can press the MENU button to exit the menu.

The selected menu will be highlighted by a blue bar when selecting menu.

Video Menu Options:

Main Menu	Sub-menu	Explanation
Movie Size	1280x720	High resolution format
	640x480	Medium resolution format
	320x240	Low resolution
Frame Rate (for VGA and QVGA movie size only)	High	Higher frame rate
	Low	Lower frame rate
Metering (exposure metering area)	Center	Exposure measured on central area
	Multi	Exposure measured on multi

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		spots
	Spot	Exposure measured on central spot
White Balance	Auto	Auto white balance suitable for most cases
	Daylight	For use in sunlight environment
	Cloudy	For use in overcast environment
	Fluorescent	In fluorescent light environment
	Tungsten	In tungsten light environment

Photo Menu Options:

Main Menu	Sub-menu	Explanation
Resolution	2592x1944	5 Mega pixel Resolution
	2048x1536	3 Mega pixel Resolution
	1280x1024	1.3 Mega pixel Resolution
	640x480	0.3 Mega pixel Resolution

Quality	Super Fine	Super fine image quality
	Fine	Fine image quality
	Normal	Standard image quality
Metering (exposure metering area)	Center	Exposure measured on central area
	Multi	Exposure measured on multi spots
	Spot	Exposure measured on central spot
White Balance	Auto	Auto white balance suitable for most cases
	Daylight	For use in sunlight environment
	Cloudy	For use in overcast environment
	Fluorescent	In fluorescent light environment
	Tungsten	In tungsten light environment
Exposure	EV -2.0 to +2.0	Adjusts exposure compensation

	(interval: 0.3EV)	by pressing the Left/Right button
Driver Mode	Off	Uses normal single shoot mode
	2s	2 sec delay self-timer mode
	10s	10 sec delay self-timer mode
	Burst	Three photos can be taken continuously
Effect	Normal	Normal effect
	B&W	Black and white effect
	Sepia	Nostalgic effect
	Negative	Negative effect
	Red	Red effect
	Green	Green effect
	Blue	Blue effect

Note：● Press the Left button as the Shortcut button to switch to different resolution setting in video/ photo mode.

● Use Class 4 4GB or better high-speed card when recording in the high resolution format.

● Exposure

Enter the Exposure sub-menu and use Left/ Right buttons to adjust the Exposure compensation adjusting brightness of the scene as required. Displayed numbers will (with +/- signs) show the reference value. Press the OK button to confirm and then press the Menu button to exit setting.

● When the recorder is set at Self-timer mode, press the OK button and the recorder will start countdown. Then recorder takes photo after 2 sec or 10 sec delay.

● Frame rate selection is available only for 640x480 and 320x240 movie size.

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Setup Menu / Internal Setting

Press the MENU button to open menu and then press the Left/Right button to enter into the window of main Setup menu, regardless of the recorder mode. Then press the Up/Down button to choose the menu item, and press the OK/Right button to enter into the corresponding sub-menu. In the sub-menu, you can press the Left button to return to the main menu, or press the Up/Down button to choose sub-menu item and the OK button to confirm. You can press the MENU button to exit the menu after returning to the main menu.

▲Setting Menu

The selected menu will be highlighted by a blue bar when choosing menu.

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Main Menu	Sub-menu	Explanation
Sounds… (Note: To return from the sub-menu of 'Sounds…' to the main menu, press Left button.)	Shutter	Set the shutter sound on or off by pressing OK button.
	Start-up	Set the start-up sound on or off by pressing OK button.
	Beep	Set the operation sound on or off by pressing OK button.
	Volume	Adjust the sound volume by pressing OK button.
Power Frequency	50Hz	Sets the light frequency at 50Hz
	60Hz	Sets the light frequency at 60Hz
Power Save	1min	Power off after 1 min idle state
	3min	Power off after 3 min idle state
	5min	Power off after 5 min idle state
Date and Time...		Sets date, time, and date format (Refer to P.12 **Setting the date and time**)

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Language (Refer to P.12 **Setting the Language**)	English	Sets menu language as English
	French	Sets menu language as French
	Spanish	Sets menu language as Spanish
	Portuguese	Sets menu language as Portuguese
USB	MSDC	Recorder used as removable disk
	PC CAM	Recorder used as Webcam
Start-up Image..	Off	Disable the start-up image
	System	Reset the default start-up image
	My Image	Use the image you select to be the start-up image.
Format…	Yes/No	Formats memory card (Refer to P.11 **Format the memory card**)
Reset All…	Yes /No	Resets to the factory setting

Note： ● To return from the sub-menu of 'Sounds…' to the main menu, press Left

button.

◆ Playback Mode

Press the Mode button to enter into the Playback mode.

Press the Left button to choose previous file or the Right button to choose file behind in the Playback mode.

Thumbnail Mode

In Playback mode, press Down button to select the 'Thumbnail' format.

Press Up/ Down/ Left/ Right buttons to browse through image, then press OK to select image for an instant review.

Video Playback

After choosing video, press the OK button to start playing. The play timer displayed in the top right corner of screen indicates the time the video has played. The time on the lower right corner of the screen indicates the total playing time of video. You can press the OK or

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MENU button to stop playing.

During video playback you may press Left/ Right buttons to Rewind or Fast forward the video being viewed. You may press Up/ Down buttons to adjust the volume of audio sound.

Displayed Still Photos

Use the Left/ Right buttons to scroll through and locate your stored still photos.

Selected photo will be displayed on the LCD screen as it had been taken.

When the selected photo is displayed, you may enter the 'Pan' mode to review finer details of still photo.

Pan Mode

Press Up button to amplify the selected photo, then press OK button to enter into Pan Mode.

Use Left/ Right/ Up/ Down buttons to move/ select interesting part of still photo for detailed review. To exit from Pan and Zoomed status, press OK button again.

◆ Setting Playback Menu

Firstly press the MENU button to open the playback menu, then press the Up/Down button to choose the menu item and the OK/ Right button to enter into the sub-menu. In the sub-menu, you can press the Left button to return to the main menu, or press the Up/Down buttons to choose sub-menu item and the OK button to confirm. You can press the MENU button to exit the menu after returning to the main menu. The selected menu will be highlighted by a blue bar when choosing menu.

▲Playback Menu

Displayed Photo Menu Options:

Main Menu	Sub-menu	Explanation
Lock…	Lock/Unlock One	Locks/Unlocks this file
	Lock All	Locks all files
	Unlock All	Unlocks all files
Delete…	One	Deletes current file
	All	Deletes all files
Slide Show...	Start	Starts slide show
	Interval	1sec~10sec
	Repeat	Yes/No
Effect	B&W	Photo image is black & white
	Sepia	Photo image has nostalgic sepia tone
	Negative	Photo image appears as negative film
	Red	Photo image has slight reddish color
	Green	Photo image has slight greenish color
	Blue	Photo image has slight bluish color
	Binarize	Photo image has binary data arrays

	Sunset	Photo Image has sunset glow
	Warm	Photo has warm color for best skin tones
	Cold	Photo has cold color for cool image effect
	Contrast	Photo Image has over-exposure effect
Rotate...	Rotate	Rotate image
	Save	Save the rotated image
	Back	Return main menu
Resize...	2048x1536	Reduce photo to 2048x1536 pixels
	1280x1024	Reduce photo to 1280x1024 pixels
	640x480	Reduce photo to 640x480 pixels
Voice Memo...	Add	Adds voice memo into the photo
	Delete	Deletes the voice memos in the photo
Start-up Image..	Set	Set the current photo as the Start-up Image
	Cancel	Cancel setting this operation

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Playback, Video clip MENU Options

When you browse and select previously recorded Video Clips, you have two available options:

Lock and Delete – options are the same as Playback Photo Options explained above on page #33-34.

Note：● The locked files cannot be deleted. Unlock the file first, then delete.

● Resize function: You can 'resize' the image size but it can only be resized to smaller size. Therefore, for photo with 640x480 resolution, 'Resize' function can not be activated.

● Some options highlighted in grey color are not available for selection.

● To activate 'Slide Show', enter into sub-menu of 'Slide Show'. Press Up/ Down buttons to select 'time interval' and 'Repeat'. Set the options of these two items by pressing OK button. Then press Up/ Down buttons to select 'Start'. Press OK button and Slide Show function is activated. During Slide Show, press Up button to pause playing and then press Up button again to go on playing. You can press OK button to stop playing.

Adding Voice Memo to Image

You may add a Voice Memo/ comments to selected image. Each photo can only add voice memo lasting max. 30 sec. In the playback mode, the icon 🎤 will appear in the photo that has been added voice memo. You can press the OK button to start playing voice memo, and press the Up button to pause playing and then press Up again to go on playing. You can press OK/ MENU button to stop.

Start up image

You can set your favorite picture as your own 'Welcome' screen.

1. Scroll down Playback menu and activate Start-up Image option.

2. Press OK/ Right button to enter into sub-menu and then select Set. Press OK button to confirm.

3. Press Menu button and select Setup Menu.

4. Press Up/ Down button to select Start-up Image option.

5. Press OK/ Right button to enter into sub-menu and then select My Image. Press OK button to confirm.

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Connecting computer to download photo/video

After recorder is connected to the computer and enters removable disk mode, a new removable disk appears in the "My Computer" window, photos and videos are saved in the "DCIM\100MEDIA" folder of the disk, so you can enter into the folder and copy the file to your own computer hard disk. You may also install Magix software to manage and edit your videos and photos.

Note: Don't disconnect USB when downloading files, don't extract/insert the memory card when the USB is connected, or the data may be lost.

Installing and using Magix software and webcam driver
Install MAGIX
Note: You can download and review photos and video recordings on your computer using typical pre-installed software program (without installing Magix).
However, you may install CD containing Magix *editing* software programs to edit, modify, correct and enhance viewing of your taken photos or video and provide easy upload to YouTube.

Note: Please first access the internet before activating Photo Manager

* Insert CD into your computer and see welcome screen as below:

* Select by clicking on buttons to install Driver and Magix programs- Video Easy SE (for

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video processing) and Photo Manager (photo processing)- and follow onscreen directions.
*Double-click the icon for Photo Manager on the desktop and follow installation steps to complete installation.
Installed program will give an option of "**trial / test phase**" for a period of seven days period, see window below:
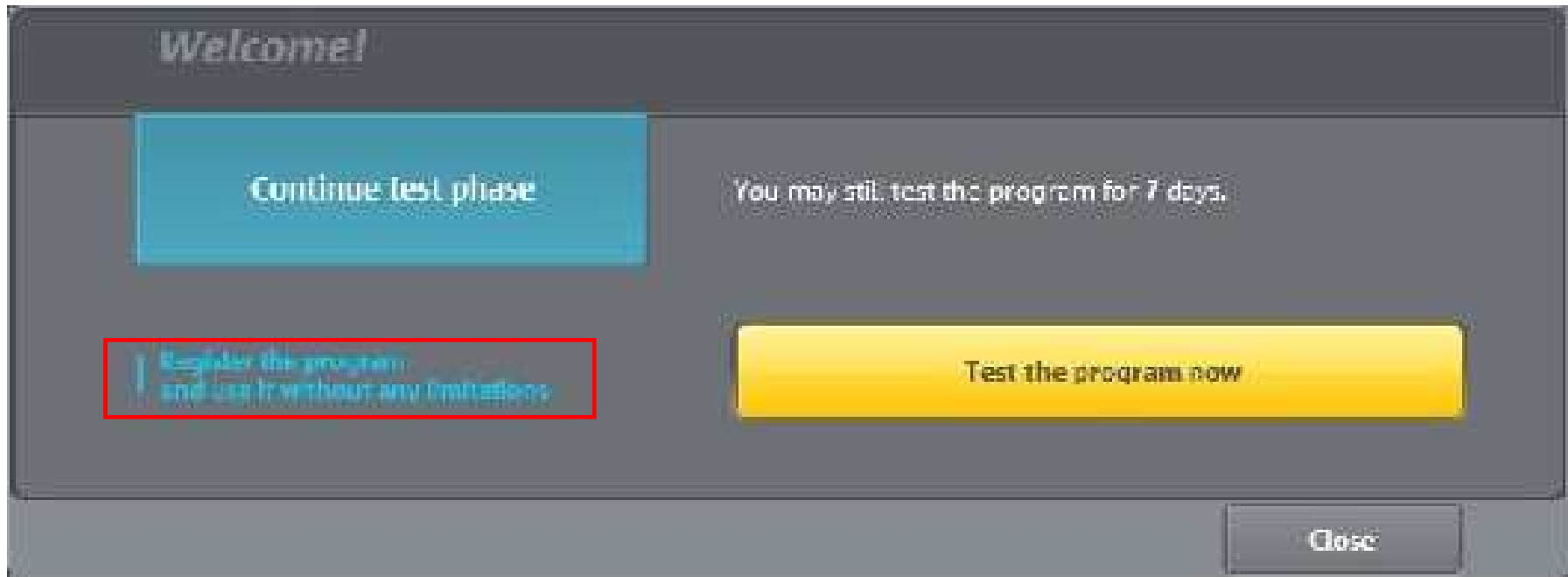

We suggest you select "Register the program and use it without any limitations" and complete Registration.
* Registration of this program is *free* and is necessary to confirm that you have genuine and virus-free program installed.

* During the Registration process (requiring your continued access to the Internet) you will be asked for some limited personal data –that will identify you as the authorized user of the program. This data will be stored in the Data Base of the Software Provider and will not be distributed to any other parties and your privacy is protected.
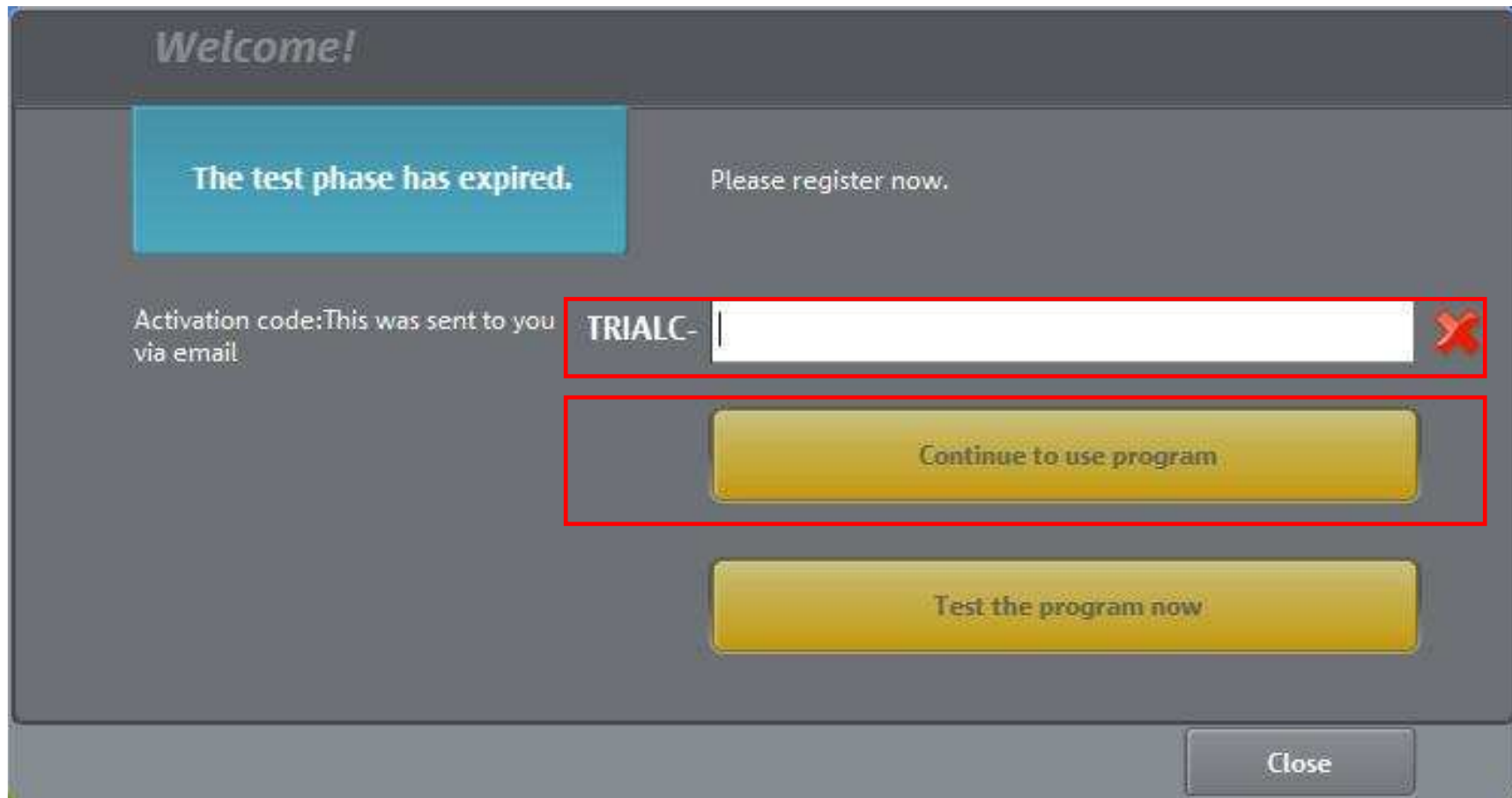* You will receive Email from Magix with your "Activation Code."
* Enter this numeric "Activation code" and click on 'Continue to use program' icon for indefinite future use as shown below:
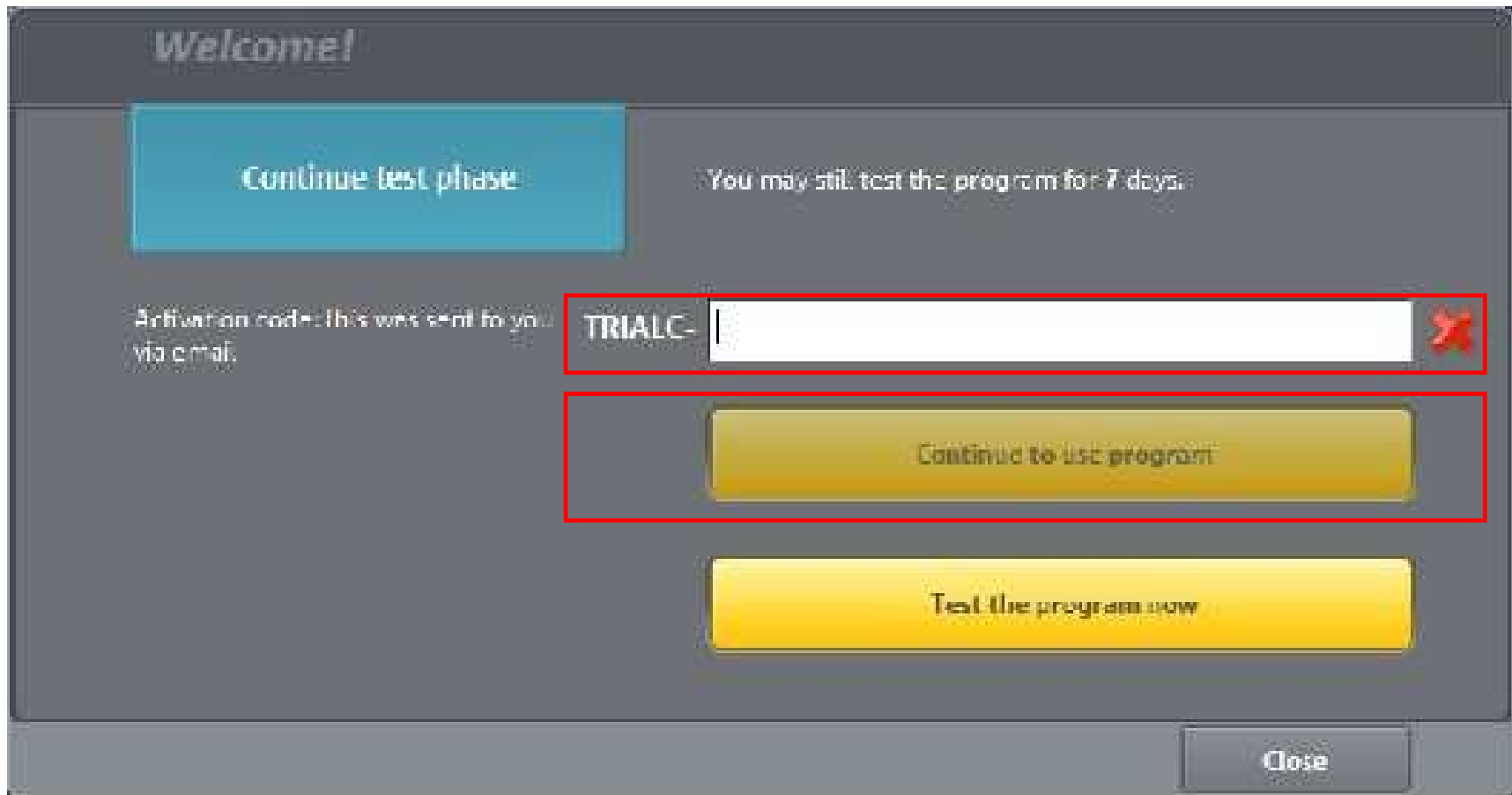
You may also register and activate the program at the any time, **after the seven days "trial / test phase" has expired**; each time you open the program you will see below screen:

* Enter this numeric "Activation Code" and click on 'Continue to use program' icon for

indefinite future use as shown above.

Note: Installing the Magix Video Easy SE program also gives you seven days "trial / test phase"; one-time Registration is required for unlimited using of this program. Supporting windows and commands are similar (but not identical) to those shown for Magix Photo Manager, follow the easy steps that will guide you through the registration process.

Use MAGIX software

* The CD contains information on using as well as Help folders for Video Easy SE and for Photo Manager .

* Click on "User Manual" button shown on CD welcome screen (see above in Install MAGIX).

* The separate files will guide you on using the programs optimally. You may also click on Help that appears in the upper toolbar of Magix software program when active on your desktop.

* If you have question about registering or using the Magix programs, please contact website: **http://www.magix.com/us/support/**   for   additional   support.

Upload to YouTube

To upload your video to YouTube website click "Upload to Internet (YouTube)" in the export dialog. Follow the dialog steps to setup your video for online viewing on YouTube.

Installing Driver

Please install Driver on supplied CD BEFORE connecting video recorder to computer (for the first time only). See directions above in "Installing and using Magix software and webcam driver"
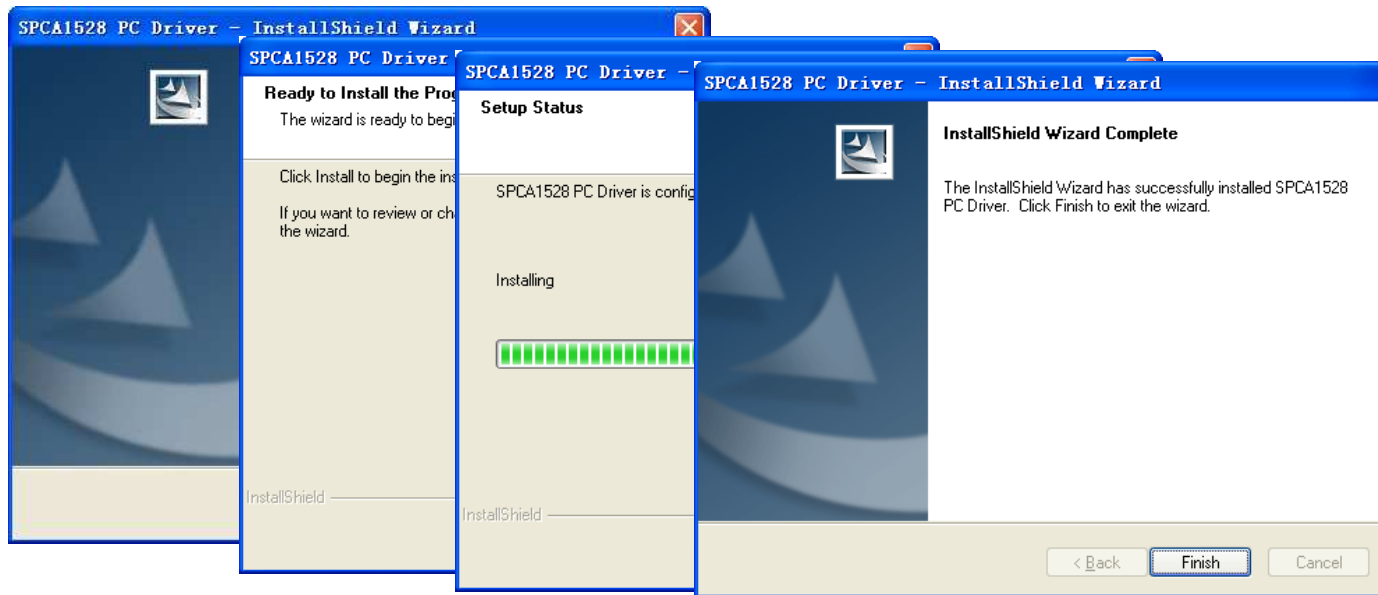
Please restart the PC after installing the driver.

Webcam Operation

- Set the USB mode of the recorder at PCCAM setting - see pages 27-29 for details.

- Connect the recorder to the computer. USB output is set to PCCAM mode (Web-cam).

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Specification

Video Resolution	HD 1280 x 720, VGA 640 x 480，QVGA 320 x 240
Photo Resolution	5M (2592 x 1944), 3.1M (2048 x 1536)，1.3M (1280x1024), VGA (640 x 480)
SD/ SDHC card slot	SD/ SDHC card slot accepts SD/ SDHC card up to maximum 8GB
File Format	JPG, AVI
Digital Zoom	4 times
White Balance	Auto / Daylight / Cloudy / Fluorescent / Tungsten
Exposure Compensation Control	-2.0 ~ +2.0
USB Interface	USB2.0
Screen	1.8" TFT LCD
Power	Three AAA Alkaline batteries (not supplied)
Menu Language	English/ French/ Spanish/ Portuguese
Auto Power-off	1min / 3min / 5min
Operating System	Windows XP / Vista / 7

Note: Product specifications based on latest information at time of writing instructions are subject to change without notice. If any differences the specifications of the actual recorder shall prevail.

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Common Problem Troubleshooting

Failure in power on of the recorder after loading batteries	Insufficient power of batteries, please replace the batteries.
	The packages of the batteries are not removed.
	Mistake in loading batteries, please make sure the batteries are loaded in correct manners.
Unable to shoot picture and video after pressing the OK button	Storage card is not inserted. It is essential to insert storage card to shoot picture or video.
	SD card is locked in the recorder, please take the SD card out and set its lock switch to unlock the SD card.
Vague picture	Hands are shaking while shooting picture. Please hold the recorder stably with both hands, or make it stable with help of other equipment, like tripod. While shooting, keep the recorder stable.
Dim picture or video	Poor light in shooting environment. Please shoot in environment with adequate light, or increase the brightness with the help of lights.
Automatic power off	Insufficient power of batteries, please replace the batteries.
	In order to save power consumption, over 1 minute (3 minutes or 5 minutes, vary according to different settings), without any operation, the recorder will automatically shut according to the settings.

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Unable to delete files in the recorder	The SD card in the recorder is under writing protection, please take the SD card out and set the protection switch to unlock it.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.