

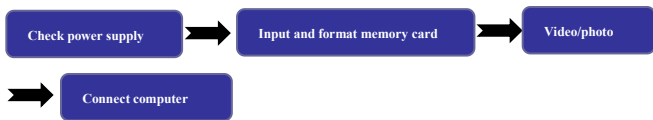
Preface

Thanks for purchasing our digital camera. Please read the use manual prior to using the camera and keep the manual in good manner for future use.

Instructions stated in this use manual are the latest information at the time when the manual was made. Display or illustration used in the manual are purposed to show camera operation directly and comprehensively. Since the products can be from different batches of production and development, the display or illustration might be slightly different as what you have in the hand.

Instruction

Please use the camera as per procedures below:

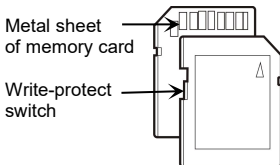


Attention: Please format the memory card through this camera if it is new or was used by other digital camera/video. Please backup the data by floppy disk, hard-disk before format.

Use Tips

The camera supports SD memory card and MMC card (multimedia memory card).

SD memory has write-protect switch, which is designed to protect data being deleted or formatted.



Push the switch on SD card to the bottom, data will be protected. Push the switch on SD

card to the top, write-protect is canceled. Push the switch on SD card to the top before shooting photos.

Instructions of Memory Card

- Please format the memory card if it is new or has unidentified data or photos made by other camera.
- Please switch off power before insert or remove the memory card.
- Performance of memory card can be weakened after repeated use. Please replace with new memory card if the performance is down.
- As a precision electronic unit, do not fold, drop or squeeze the memory card.
- Do not put the memory card at high electric field or magnetic environment, such as near speaker or TV receiver.
- Do not use or put the memory card in superheated or supercooled environment.
- Please keep the memory card clean, and keep it away from any liquid. Use soft fabric to clean the memory card if it has contact with liquid.
- Please put the memory card in the card sleeve when not in use.
- Please be aware of that it is normal when the memory card be warming after long-time use.
- Do not use memory card which was used by other digital camera or video. Please format it with this camera before using it.
- Do not use memory card which was formatted by other digital video or card reader.
- Data can be damaged if the memory card suffers the situations as below:
 - Incorrect use.
 - Switch off power or remove the memory card when recording, deleting (formatting) or reading the card.
- Recommend to copy important data by other medias, such as floppy disk, hard-disk .

Camera Maintenance

Keep the camera at dry and dark place when not in use, and get the battery out.

- Wear the wrist strap when use the camera to prevent accident falling.
- Use proper protective casing to prevent shot and display scratch.
- To clean the shot surface, please blew dust away then wipe the shot lightly with fabric or paper special for optical device. Shot cleanser can be used if necessary. Do not use organic solvent to clean the camera.
- Do not touch the shot with finger.

System Requirements

Please read the system requirements before use the camera. It is strongly suggested to use the better computer system for the camera to get the best effect. See lowest system requirements:

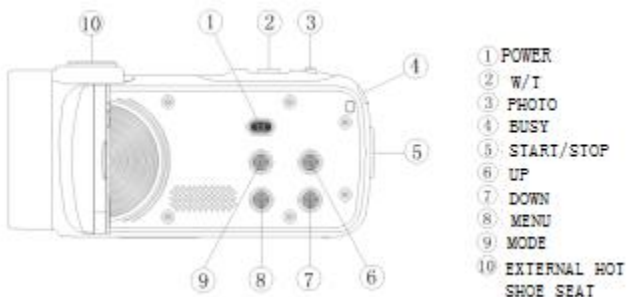
System requirement	
Operating system	Microsoft Windows 7 2000, XP, VISTA
CPU	Above Intel PIII667 or same performance CPU
Internal memory	Above 128MB
Audio card, graphic card	Support DirectX8 or higher version
Hard-disk	Above 1GB space
Others	One standard USB 1.1 or USB 2.0 port

Function & Feature

The camera has multiple functions and features:

- Digital video (1080P)
- Digital camera (24Mega pixels)
- Mass storage (Removable disk)
- 16X powerful zoom

Appearance



Functions of Keys & Indicators

Key/indicator	Function
Power/OK	Switch on or switch off the camera. Play or pause(under playback status). Switch on or switch off LED fill-in light. Confirm and return to previous menu.
Video	Record/stop video
Photo	Photo shooting
Zoom	Zoom in/out focus or photo (playback mode),
Menu	Open/quit menu. Stop play (under video playback)
Key-Up	Menu selection. Previous-photo(playback mode). Move photo (zoom in photo). EV+
Key-Down	Menu selection. Back-photo(playback mode). Move photo (zoom in photo). EV-
Busy indicator	The blue light indicates working. Red light indicates the charging state, Red light flashing when the battery is placed incorrectly; red light on when charging, light off when battery is full charging.
Mode	Switch over working mode (video/photo/Playback/Setup). Press the key to be as PC camera when connecting computer movable disk.

External hot shoes seat	Connector for installing an external camera accessory
-------------------------	---

Come to Use

Place Battery

Original rechargeable lithium battery. Switch off power before replacing battery. Press electric lock, the battery will be popped up and to be get out manually. Place the charged battery in battery box, push it up until the battery is electric locked and the placement is well done.

Place SD/MMC card

Open SD slot cap, insert the SD/MMC card (with its metal sheet to outwards) in the slot as per guidance besides the slot. Press SD/MMC card to get it out.

Attention: ● Power off camera before replace memory card

- Insert the card as correct direction. Do not insert the card with too strong force to protect the card or camera units being damaged. If the insert is not smooth, please check the insert direction.



- Memory card needs to be formatted for first time use or if the card was used by other camera.

Turn over Screen

Turn over LCD outwards to user.

Switch on

Press power for two seconds to switch on the camera.

Switch-over Mode

Under Photo/Video mode, press MODE to switch Photo/Video mode to Playback mode. Press MODE to quit the Playback mode.

Video

Press recording to start video and press the recording again to finish the video.

Photo

Press Photo to shoot photos under Photo mode.

Playback

Press MODE to enter into Playback mode, to browse photos, or play the video.

Browse photos: Select photo by UP or DOWN key, zoom in or out photo by Zoom key.

Press Up/Down/W/T to move the zoomed photo.

Play video: Select video by UP and DOWN key or W/T key, press OK to play the video, press OK to pause playing, press MENU to stop playing.

HD Output

To output the photos, video or audio to high definition TV, insert the camera HD port with TV HD community port, and connect HD input port with TV input port. Please be sure to stop video playing before connect or disconnect HD.

TV Output (Part models)

To output the photo, video or audio to TV, insert the camera AV port with TV community port, Yellow port is for video input, red/white port is for audio input.

Attention: Stop video/recording playing before connect or disconnect with TV. (The TV source needs to be switched to AV mode)

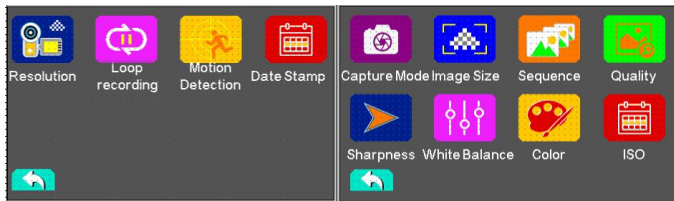
Switch off

Under switch-on status, press power until the camera is off.

Under idle mode, if no operation is done in the time beyond auto off time (1m/3m/5m), the camera will be switched off automatically for energy saving.

Menu Setting

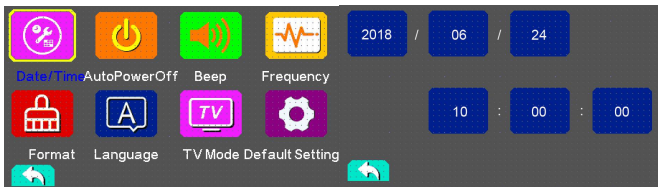
Under Photo/Video/Playback mode, press Menu to open menu, press Up/Down to select the menu, press OK to skip in submenu. Selected menu will be highlighted with yellow color on background when selecting menu.



▲ Video/photo menu

Date & Time Setting

Press Mode for three times to open the main menu, press OK to “Date&Time” setting interface, selected item is highlighted with yellow color. Press Up/Down to adjust, press W/T to enter the next item setting. Press OK to save the setting, or press Menu to cancel the setting.



Connect with Computer

Switch on camera power, connect camera with computer by USB cable attached. USB mode is removable hard disk or PC camera. Camera steps in removable disk mode automatically, press Mode to start PC camera function.

Advanced Operation

Photo/video Mode

Enter into Video mode automatically after switching on, press recording to start video, press Recording again to stop video.

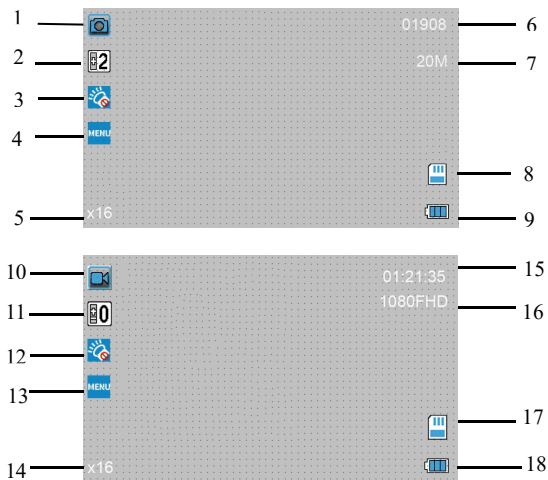
Press Mode to switch to Photo mode, press PHOTO key to take photo.

Press T or W key to have digital zoom.

Self-timer mode can be set as 2s/10s.

Self-timer mode: Press Photo key for time delay, photo shooting starts after 2s or 10s.
 LED fill light: Press OK to switch on or off fill light. (fill light can't be used under Playback mode)

Display information under Photo/Video mode



No.	Icon name	Description
1	Photo mode	Press shutter to make photo shooting under Photo mode
2/11	Exposure	Current exposure
3/12	IR light	Current IR light status
4/13	Menu	press Menu into Menu setting
5/14	Zoom adjustment indicator	Current digital zoom times

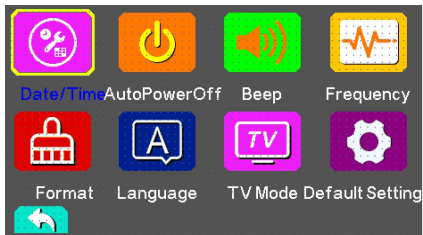
6	Available number of photos	Space for photo shooting
7	Image size	Resolution ratio of current image
8/17	SD card	Indicate that the current storage is the SD card
9/18	Power volume	Current battery status
10	Video mode	Press Video to start video under this mode
15	Recording time	The current available recording time
16	Image quality	Quality of current image

◆ Menu Setting

1.Main Menu Settings:

Press Mode key three times to open main menu(the interface shown below), press Up/Down to select menu, press OK key to enter into submenu. press Up/Down to select menu under submenu. Press Menu or OK at submenu to return to main menu, Press Menu to quit the menu after return to main Menu.

Selected menu will be highlighted with yellow color after selection.



▲ Main Menu

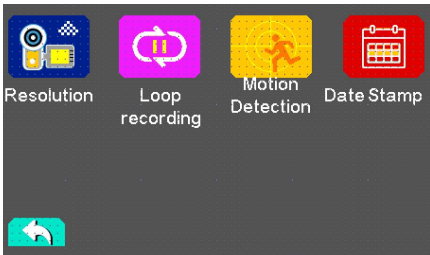
Main Menu Options:

Main menu	Submenu	Description
Date/Time	/	Set date&time
Auto Power Off	3min	Auto off in 3min at idle status
	5min	Auto off in 5min at idle status
	10min	Auto off in 10min at idle status
	OFF	Cancel auto off
Beep	OFF	Beep is off
	ON	Beep is on
Frequency	50Hz	Light source frequency at 50Hz
	60Hz	Light source frequency at 60Hz
Format	Yes/No	Format memory card
Language	English	Menu in English
	Français	Menu in Français
	Español	Menu in Español
	Português	Menu in Português
	Deutsch	Menu in Deutsch
	Italiano	Menu in Italiano
	Simplified Chinese	Menu in Simplified Chinese
	Traditional Chinese	Menu in Traditional Chinese
	Русский	Menu in Русский
Japanese	Menu in Japanese	
TV Mode	NTSC	NTSC TV format
	PAL	PAL TV format
Default Setting	Yes/No	Factory reset

2.Video Mode Menu Setting

Press menu key to enter the video mode menu settings(the interface shown below), press Up/Down to select menu, press OK key to enter into submenu. press Up/Down to select menu under submenu. Press Menu or OK at submenu to return to main menu, Press Menu to quit the menu after return to main Menu.

Selected menu will be highlighted with yellow color after selection.



▲ Video mode Menu

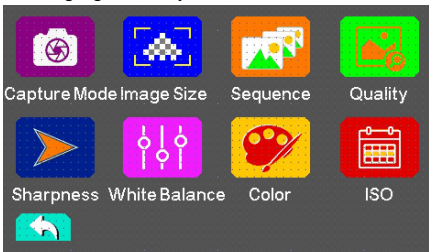
Video Menu Options:

Main menu	Submenu	Description
Resolution	FHD30	1920x1080 30FPS
	HD60	1280x720 60FPS
	HD30	1280x30 30FPS
Loop recording	x	OFF
	3	3 minutes
	5	5 minutes
	10	10 minutes
Motion Detection	OFF	The motion detection is off
	ON	The motion detection is on
Date Stamp	OFF	The date stamp is off
	ON	The date stamp is on

3.Photo Mode Menu Settings:

Press mode key to enter photo mode, press menu key to enter the photo mode menu settings(the interface shown below), press Up/Down to select menu, press OK key to enter into submenu. press Up/Down to select menu under submenu. Press Menu or OK at submenu to return to main menu, Press Menu to quit the menu after return to main Menu.

Selected menu will be highlighted with yellow color after selection.



▲ Photo mode Menu

Photo Menu Options:

Main menu	Submenu	Description
Capture Mode	Single	Single Mode
	2s/5s/10s	Camera timer
Image size	6340 x 3600	24Mega pixels
	6000 x 3375	20Mega pixels
	5232 x 2943	16Mega pixels
	4608x2592	12Mega pixels
	3840x2160	8Mega pixels
	3072 x 1728	5Mega pixels
Sequence	OFF	OFF
	ON	ON
Quality	Fine	Best quality
	Normal	Good quality
	Economy	Ordinary quality
Sharpness	Strong	Best sharpness
	Normal	Good sharpness
	Soft	Ordinary sharpness
White balance	Auto	Automatic white balance for various situations
	Daylight	For sunshine weather
	Cloudy	Cloudy weather
	Tungsten lamp	For tungsten lamp environment

	Fluorescent lamp	For fluorescent environment
Color	Normal	Normal color
	Black&White	Black&White color
	Sepia	Sepia color
ISO	Auto	ISO is adjusted automatically
	100	ISO is 100
	200	ISO is 200
	400	ISO is 400
Exposure	EV	Adjust exposure compensation by Up/Down key
Face detection	OFF	Face detection is off
	Face detection	Face detection is on
Anti-shaking	OFF	Anti-shaking is off
	ON	Anti-shaking is on
Date Stamp	OFF	Switch off date/time mark on file
	Date	Date be marked at lower right corner on file when making photo or video.
	Date/Time	Date&Time be marked at lower right corner on file when making photo or video.
Beauty	On	Improve the color of the face
	Off	Switch off beauty

Attention: ● Please hold the camera stably when photo shooting. To make photo with best quality, it is better to put the camera on support like tripod.

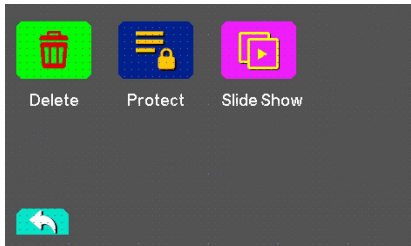


● BUSY light be on after use shutter for photo, do not move the camera at the moment until the BUSY light is off, to ensure no unsharp photos.

Attention: Enter into Exposure submenu to adjust exposure compensation, press W/T key to adjust exposure compensation value. Display brightness varies as the adjustment. Press OK key to confirm after setting and return to main menu, press menu key to cancel the setting.

4. Playback Menu Setting

1. Press mode key twice to enter playback interface (the interface shown below), press MENU key to playback menu settings, press Up/Down or W/T to select the menu, press OK to get in submenu. To press MENU or OK key at submenu to return to Main Menu, 2. After choosing Video, press OK key to play the video. Playing timer will be displayed at the top right corner on screen. When the video plays, press OK key for playing pause and restart playing by pressing OK again, press Menu key to stop playing. At photo selection mode, press W/T key to zoom in photo, press OK key to confirm.



▲ Playback Menu

Playback Menu Options:

Main menu	Submenu	Description
Delete	Delete current	Delete current files
	Delete all	Delete all files
Protect	Lock Current	Lock current files
	Unlock Current	Unlock current files
	Lock All	Lock all files
	Unlock All	Unlock all files
Slide Show	2S	2 seconds
	5S	5 seconds
	8S	8 seconds

Download photo/video to computer

Connect the camera with computer, skip to "My Computer" to check the new removable disk, the photo or video made by the camera are saved under DCIM, user can copy the data from this file to computer.

Attention: Do not disconnect the camera with computer when

downloading files. To prevent data loss, do not insert or remove the memory card in the camera when USB connecting with computer.



Specification

Image sensor	8 mega pixel CMOS image sensor
Resolution ratio of image	24M(6340 x 3600); 20M(6000 x 3375); 16M(5232 x 2943); 12M(4608x2592);8M(3840x2160);5M(3072 x 1728);
Memory card	Supports SD memory card and MMC card (4GB to 32GB)
File format	JPEG, MOV
Self-timer	2s/5s/10s
Digital zoom	16×
White balance	Auto/sunshine/cloudy/fluorescent lamp/Tungsten lamp
Exposure compensation	-2.0 ~ +2.0
USB port	USB2.0
TV output	NTSC / PAL
Display	3.0 inch TFT LCD (16: 9)
Power	Rechargeable lithium battery

Menu language	Multi-Languages
Focal distance	f=7.36mm
Aperture	F/3.2
Auto Off	1m/3m/5m/No shutdown
Operating system requirements	Windows7/ 2002 / XP / Vista
Size	125 mm ×58mm × 57 mm

Attention: Product specification is the latest information at the time when this use manual is made. No further notice will be made for any variation. Specific operating methods are subject to the real camera that you purchased.

Frequent Asked Questions

The camera fails to work after battery placement	The power may be too low, new battery is needed.
	Battery package may be not removed.
	Battery may be placed reversely. Ensure correct placement of battery.
Shutter is not working to make video or photo.	Memory card may be full. Please save the data with other memory card.
	SD card may have write-protect. Get out SD card and unlock the write-protect switch.
Unsharp photos	May be caused by shaking hands when photo shooting. Please hold the camera stably or use other supports like tripod. Do not shake the camera when photo shooting.
Dark photos or videos	Shooting environment may be too dark. Please make the shooting at bright place, or use light to brighten the shooting place.
Auto off	Battery may have too low power. Please change new battery.
	To save energy, the camera will be off automatically if not in use for 1m (3m or 5m, subject to the setting).

File can not be deleted in the camera.	SD card has write-protect. Get out SD card and unlock the write-protect switch. Or file protection function of the camera is activated, which can be switched off in the menu.
The video camera crashes or shows blurred screen	SD card format error, please format the SD card within the video camera or on the computer before use it.

NO: HDV 3051STRM 20180706