

INSTRUCTION MANUAL

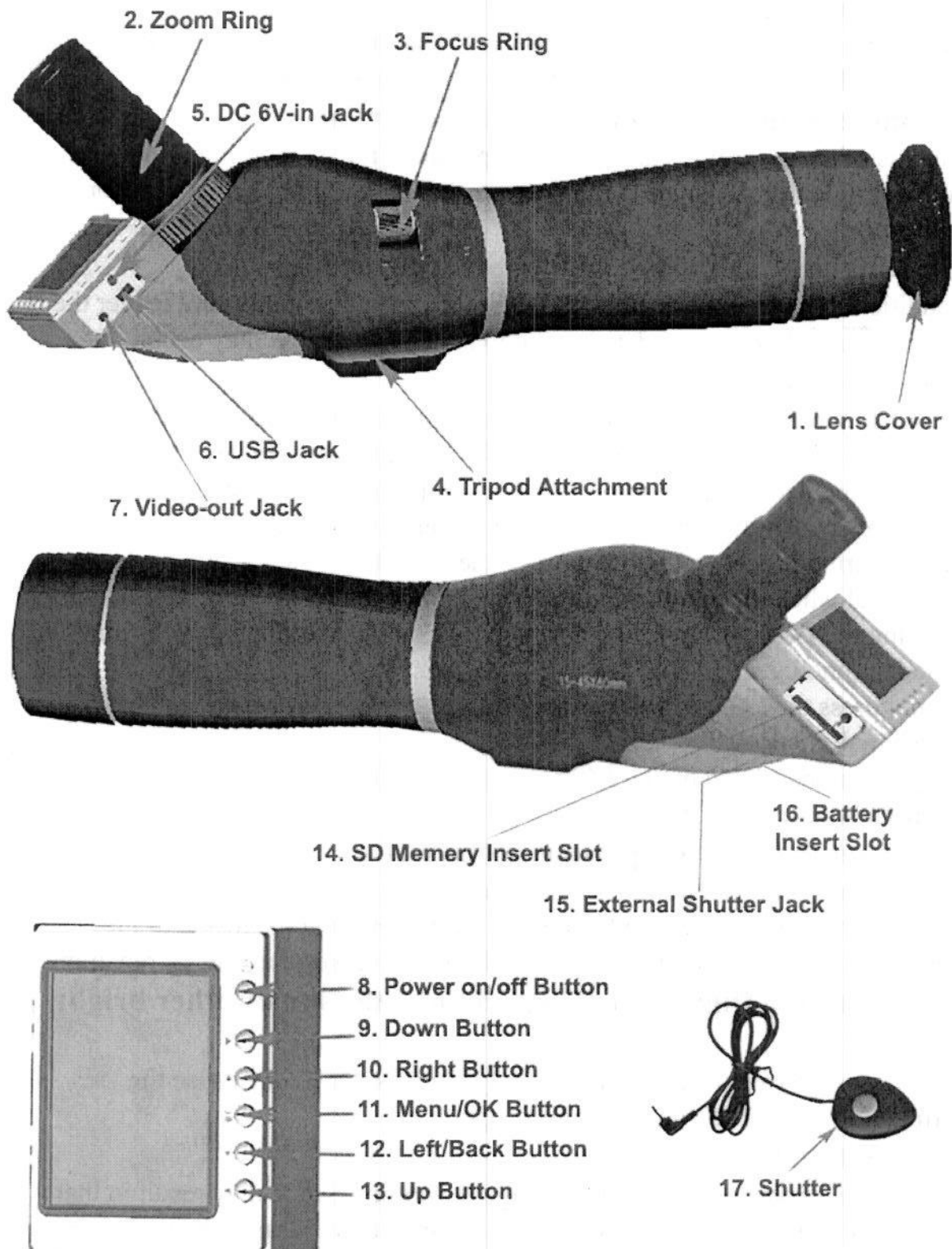
(MODEL: DSS154560)



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Name of the Parts



Read before Using

Trial recording

Before you record one-time events, you may want to make a trial recording to make sure that the Digital Spotting Scope is working correctly.

No compensation for contents of the recording

Contents of the recording can not be compensated for if recording or playback is not possible due to a malfunction of your Digital Spotting Scope or recording media, etc.

Don't shake or strike the Digital Spotting Scope

In addition to malfunctions and inability to record images, this may render the SD card unusable or image data breakdown, damage or loss may occur.

LCD screen and lens

- The LCD screen is manufactured using extremely high-precision technology so over 99.9% of the pixels are operational for effective use. However, there may be some tiny black points and/or bright points (white, red, blue or green in color) that constantly appear on the LCD screen. These points are normal in the manufacturing process and do not affect the recording in any way.
- Be careful when placing the Digital Spotting Scope near a window or outdoors. Exposing the LCD screen or the lens to direct sunlight for long periods may cause malfunctions.
- Do not press the LCD screen hardily. The screen may be uneven and that may cause a malfunction.
- Images may be trialed on the LCD screen in a cold or dark location. This is not a malfunction.

Do not get the Digital Spotting Scope wet

When taking pictures outdoors in the rain or under similar conditions, be careful not to get the Digital Spotting Scope wet. Water entering the inside of the instrument may cause malfunctions which in some cases may not be repairable.

Do not aim the Digital Spotting Scope at the sun or other bright light

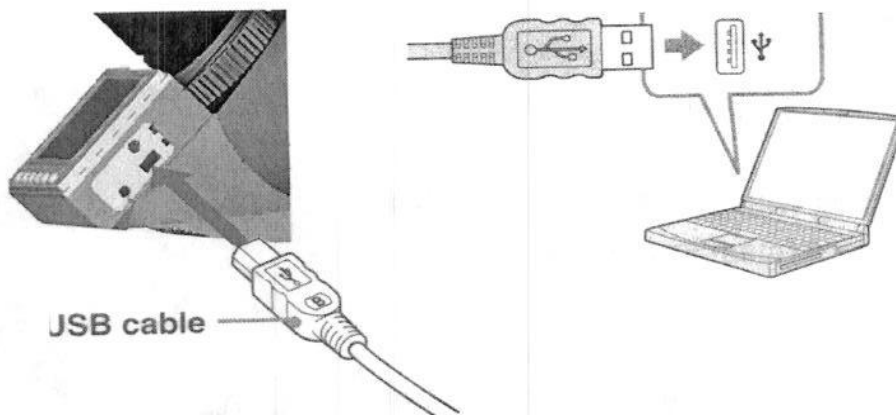
This may cause irrecoverable damage to your eyes. Or it may cause the malfunction of your Digital Spotting Scope.

The function buttons

Improper or wrong operation of this Digital Spotting Scope may result in that all the function buttons are out of service. In such case, please take the batteries out from the Battery Slot and then restore in. The problem will be settled.

PC-Cam Driver Installation

- Start up the computer before connecting DSS.
- Insert the USB cable to the USB jack on DSS and the other end into the computer's USB port. Make sure the plug is firmly attached.
- Turn on the computer. Then insert the "PC-Cam Driver Installation Disk" (supplied) into the computer. Operate according to its command



Observing Through the Ocular

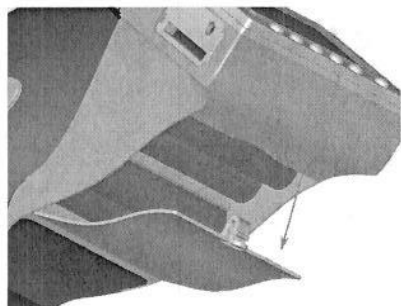
- Tripod screw attachment: For stable viewing it is recommended to mount the spotting scope on a tripod.
- Zoom ring (model 15-45 \times 60): Turn zoom ring to 15 \times position.
- Focus ring: Align spotting scope with object to be view. Rotate focus ring till a clear picture is obtained.
- Model 15-45 \times 60: Rotate zoom ring to the desired power setting. Refine focus as needed.

Warning:

Viewing the sun with this instrument can result in blindness or other serious eye damage, which may be permanent.

Getting Start

Battery

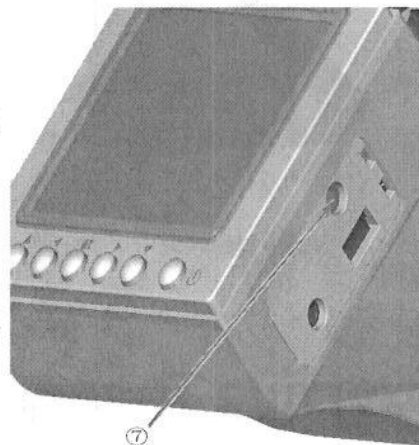


- Open the cover in the direction of the arrow. And your DSS needs 4 pieces of 1.5V AA batteries.
- Pay attention to the anode direction of each battery according to the identifier indicated.
- It's better to take the batteries out when you don't use it with a long time.

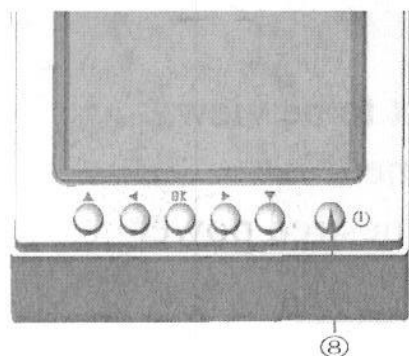
AC Adaptor (option)

Connect the AC Adaptor (option) to the DC6V-in jack as shown.

- Connect the DC plug with the DC6V-in jack, then connect the power cord (main lead) to the wall outlet (wall socket).
- It is recommended to use the DC Adaptor when your digital spotting scope is under USB connection with your computer.
- Do not short the DC plug with a metallic object, as this may cause malfunction.



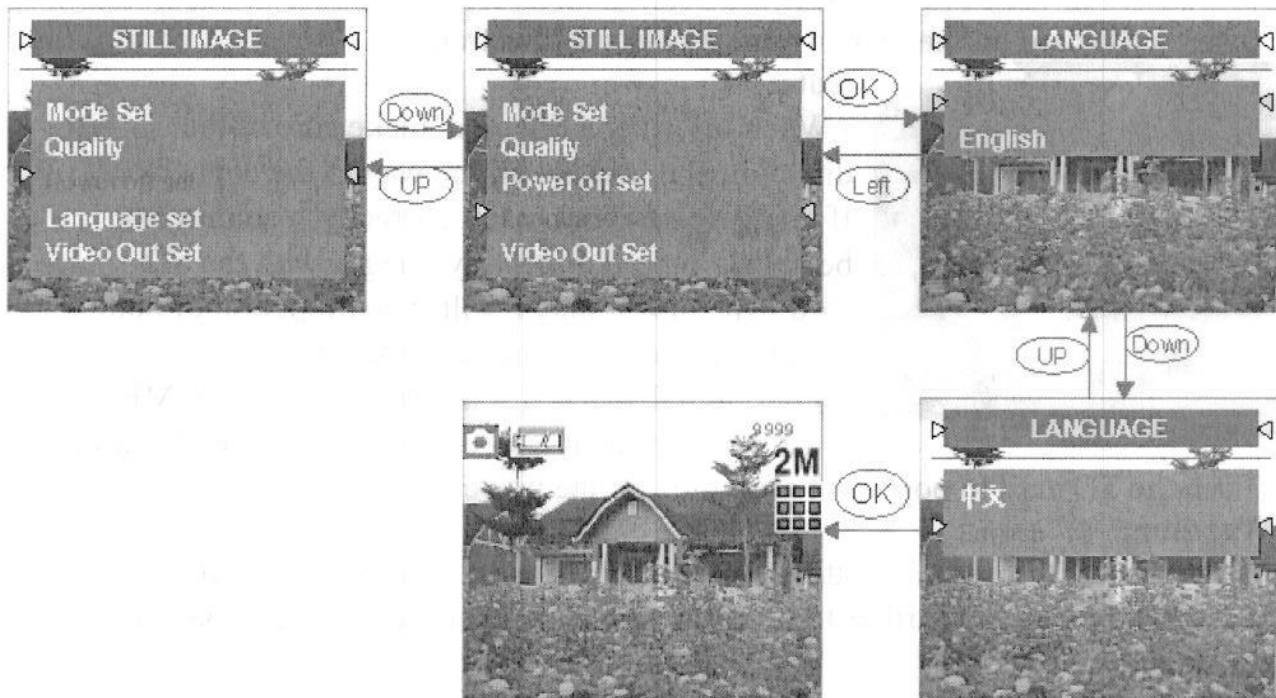
Turn on/off the Display Screen



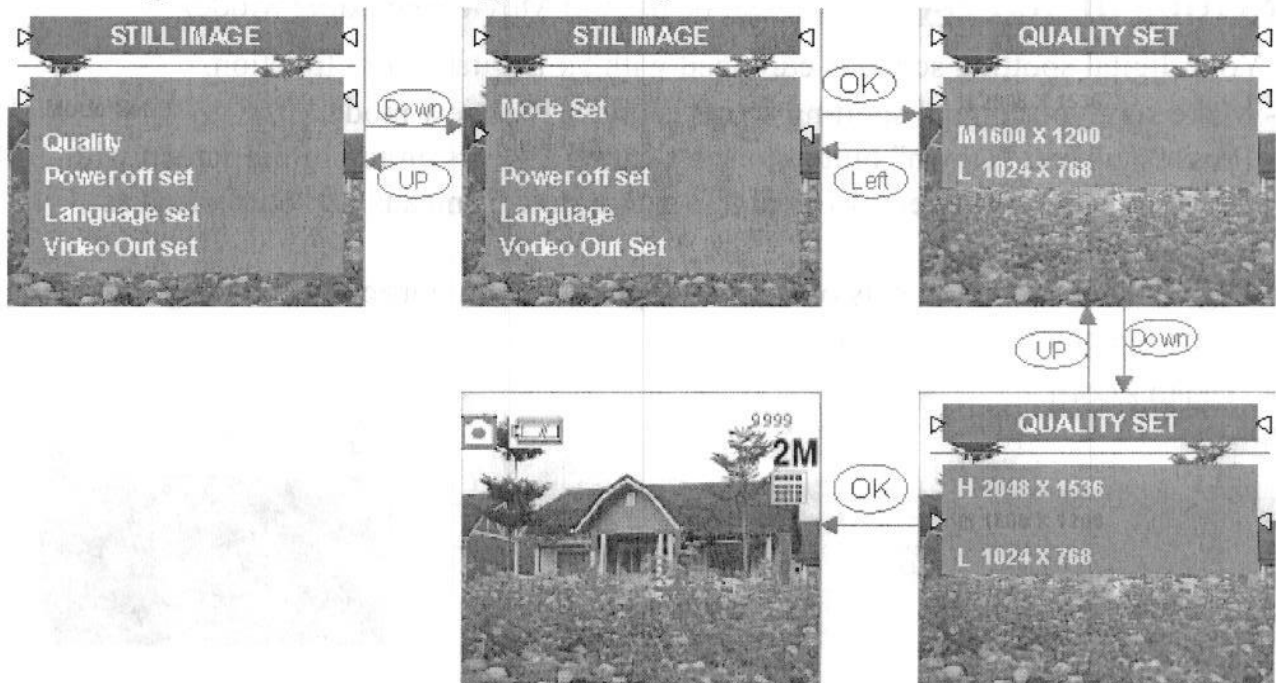
- Press and hold the Power Button to turn the display screen on.
- To turn off the display screen, press and hold the power button until it turns off.

Setting the Menu Language

- Press the "Menu/Ok" Button to open the menu.
- Use the "Down" Button to highlight the language menu option.
- Use the "Menu/Ok" Button to open the language screen.
- Use the "UP" "Down" Button to select the desired language.
- Press the "Menu/Ok" Button again to confirm and turn off the Setup screen.



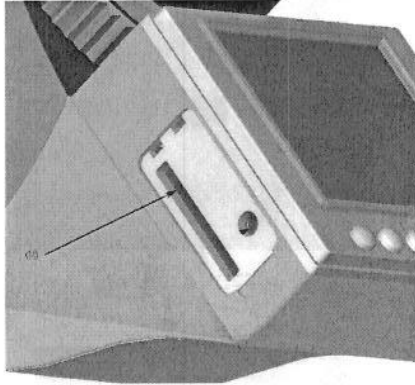
Setting the Recording Quality



- Press the "Menu/Ok" Button to open the setup menu.
- Use the "Down" Button to highlight the quality menu option.
- Use the "Menu/OK" Button to open the quality screen.
- Use the "UP" "Down" Button to select HIGH (3M), MIDDLE(2M) or LOW(1M) image quality.
- Press the "Menu/Ok" Button again to its confirmation and turn off the Setup screen.

Inserting and Removing the SD Card

1. Insert a SD card all the way in until it clicks as illustrated.



Note:

- When inserting a SD card, make sure of the direction and insert it all the way to the connector. If the SD card is not insert correctly, you may not be able to record or display images with the SD card. And also it may result in malfunction of both the digital spotting scope and the SD card.
- Your digital spotting scope has a built-in 32MB Flash Memory so it also works without the SD card.

2. Push the SD card to pop it out after turn off the power.

Warning:

Whenever the digital spotting scope is recording or reading an image, never remove the SD card or turn off the power at this time. The data may be corrupted

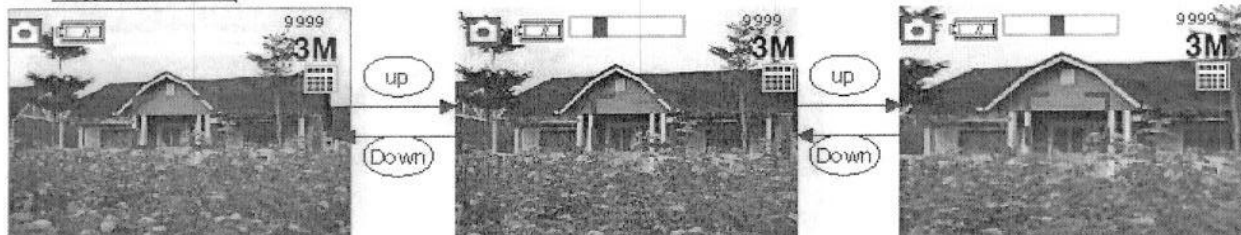
Recording the Still Images

Setting digital zoom (also can be used in Movie Recording Mode)

Your digital spotting scope is equipped with 5x Digital Zoom function.

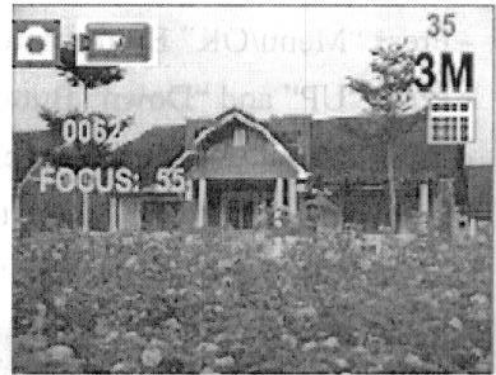
- Make sure your digital spotting scope is under Pre-view mode.
- Press "Up" and "Down" button to see a frame appears on top of the screen with figures changing between 1 (means 1x zoom) and 5 (means 5x zoom). Just as the following.
- Digital Zoom function cuts out and enlarges a certain portion of the image, so the image quality deteriorates.

Digital Zoom



How to record Still Image

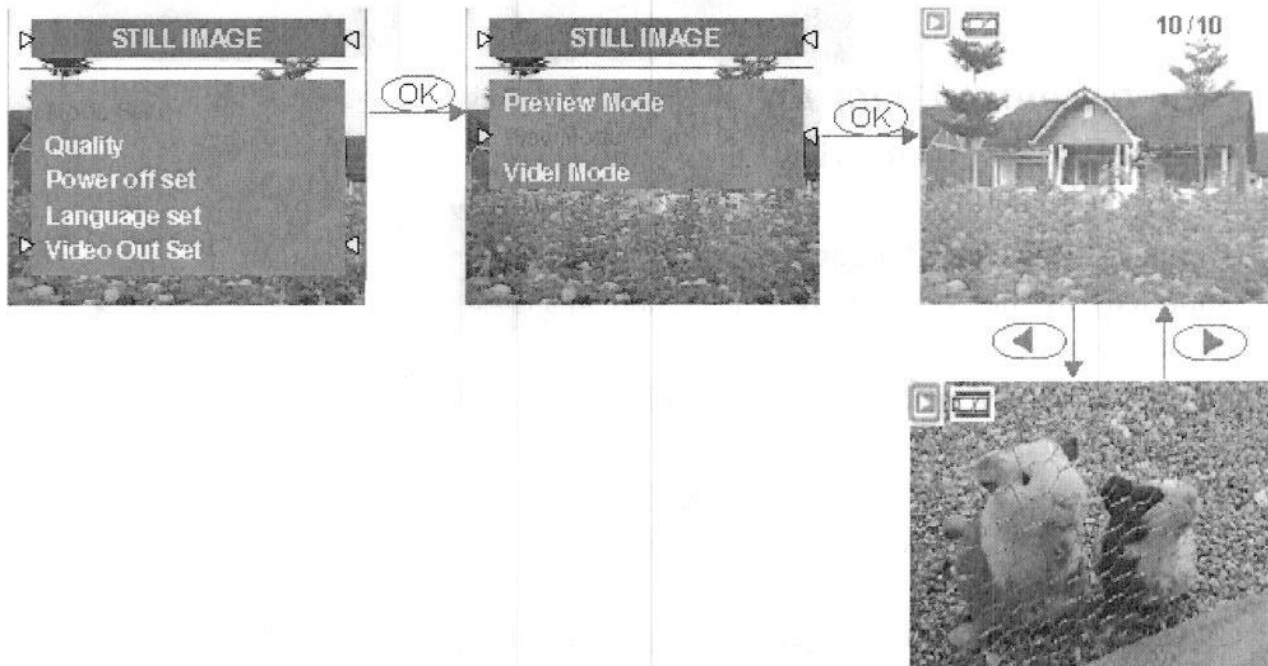
- Connect the Shutter-Release Cable to the Shutter Jack which is at the left side of your digital spotting scope.
- Make sure your digital spotting scope is under Pre-view mode.
- Place the object anywhere within the focus frame shown on the LCD.
- Adjust the focus ring Slowly till you get a clear image on the LCD screen.
- Press the shutter-release button all the way down slowly to take a photo.



Viewing Still Images

How to view still images on LCD

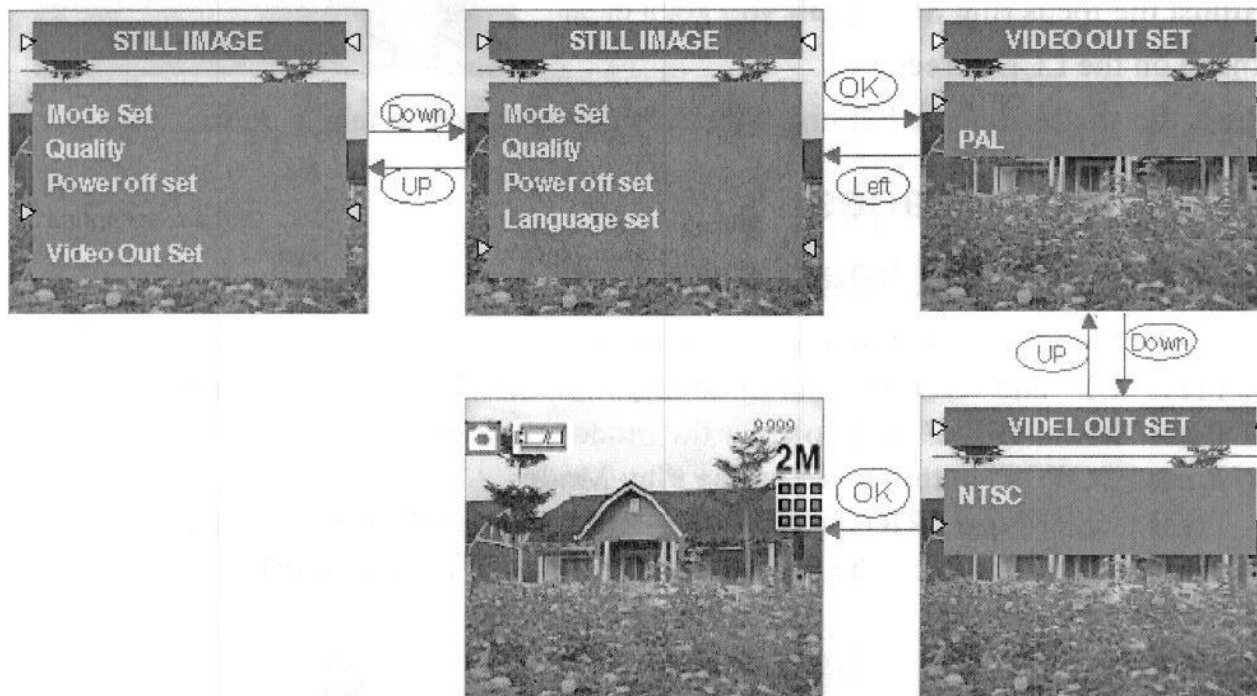
- Press "Menu/Ok" Button to enter the menu.
- Press "UP" and "DOWN" button to highlight the "MODE SET" menu.
- Press "Menu/OK" Button to enter the mode-set screen.
- Press "DOWN" button to select the Play Mode.
- Press "LEFT" and "RIGHT" Button to browse the still images. Just as the following. (also can be used for viewing on TV or computer):



How to view still images on a TV set

Video-out Mode Setting:

- Make sure your DSS is under Pre-view Mode.
- Press “Menu/OK” Button enter menu.
- Press “UP” and “Down” Button to highlight “Video Out”.
- Press “Menu/OK” Button to enter Video Out menu.
- Use “Up” or “Down” Button to select the desired mode (NTSC/PAL)
- Press “Menu/OK” Button to its confirmation and exit.

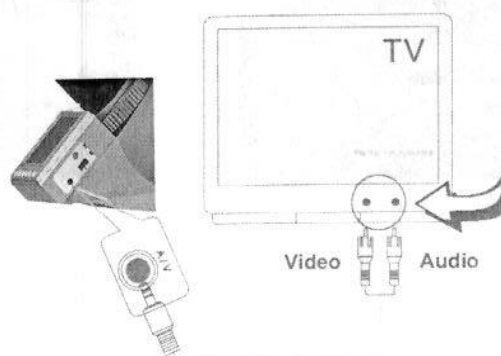


How to connect with the TV set:

- Operate as “How to view the Still Images on LCD”
- Connect the Video-Out connecting cable (supplied) to the VIDEO-OUT jack and the video input jack of the TV set.
- Turn on the TV and set the TV/Video switch to video.

Make sure the color system of the TV must match that of your digital spotting scope.

CAUTION: Always make sure your digital spotting scope has been turned off before you disconnect the Video-Out connecting cable with the VIDEO-OUT jack.

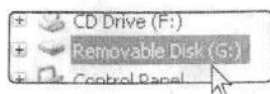
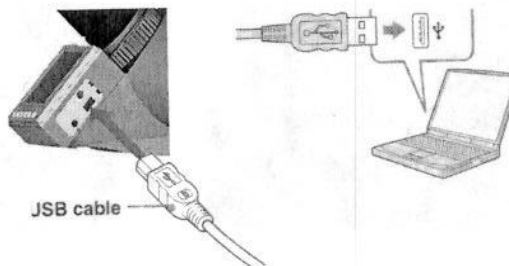


How to view still images on your computer:

- Start-up the computer before connecting your digital spotting scope.

- For users with Windows 98 or 98SE, install the necessary USB driver (supplied) and restart the computer before connecting your digital spotting scope to the computer.

- Insert the USB cable to the USB jack on the right side of the digital spotting scope and the other end into the computer's USB port. Make sure the plug is firmly attached.

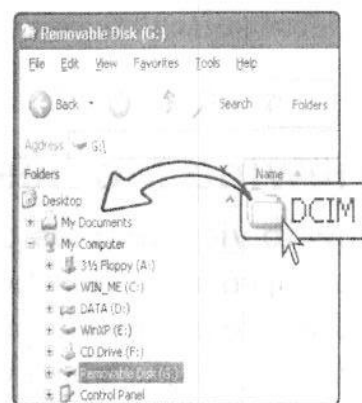


- Double-click [My Computer], then double-click the [Removable Disk].

- Double-click [DCIM], then double-click the folder that the image files you want to copy are stored.

- Right-click the image file to display the menu, then select [Copy] from the menu.

- Double-click the [My Document] folder and right-click on the "My Documents" window to display the menu, and then select [Paste] from the menu. The image files are copied to the "My Document" folder.

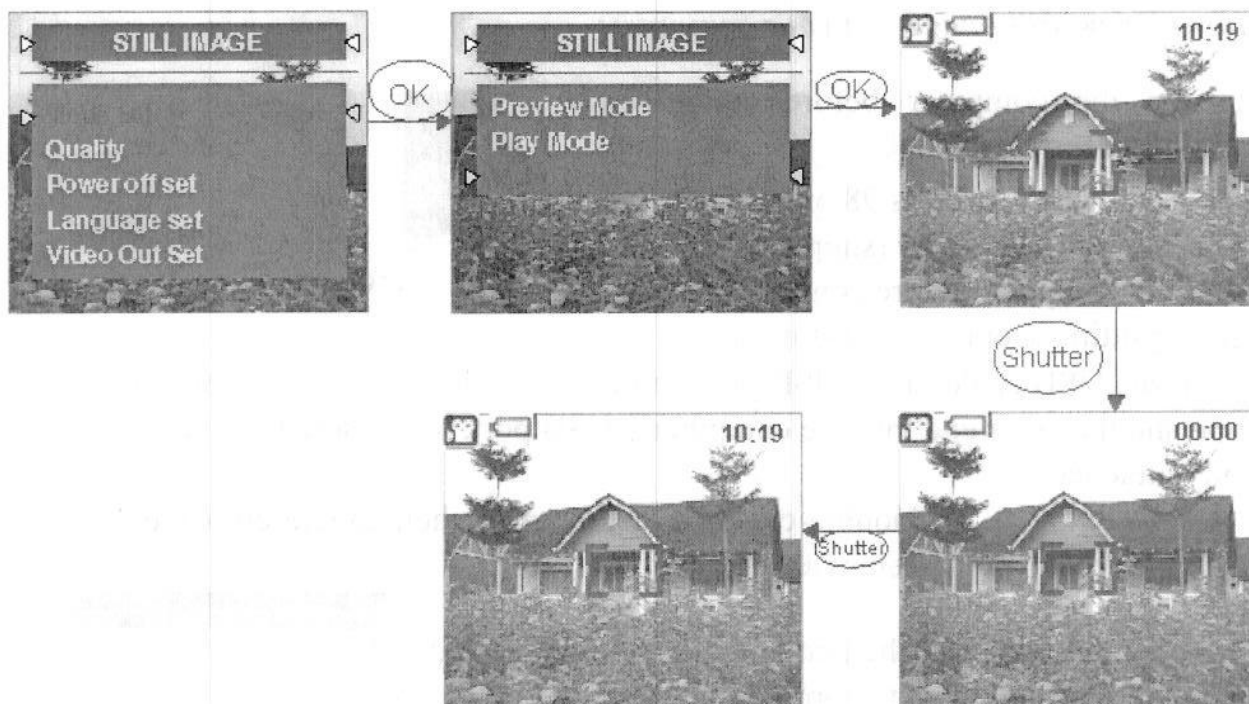


- Click [Start], and then click [My Documents]. The "My Document" folder contents are displayed.

- Double-click the desired image file. So that the image is displayed.


Recording Movies

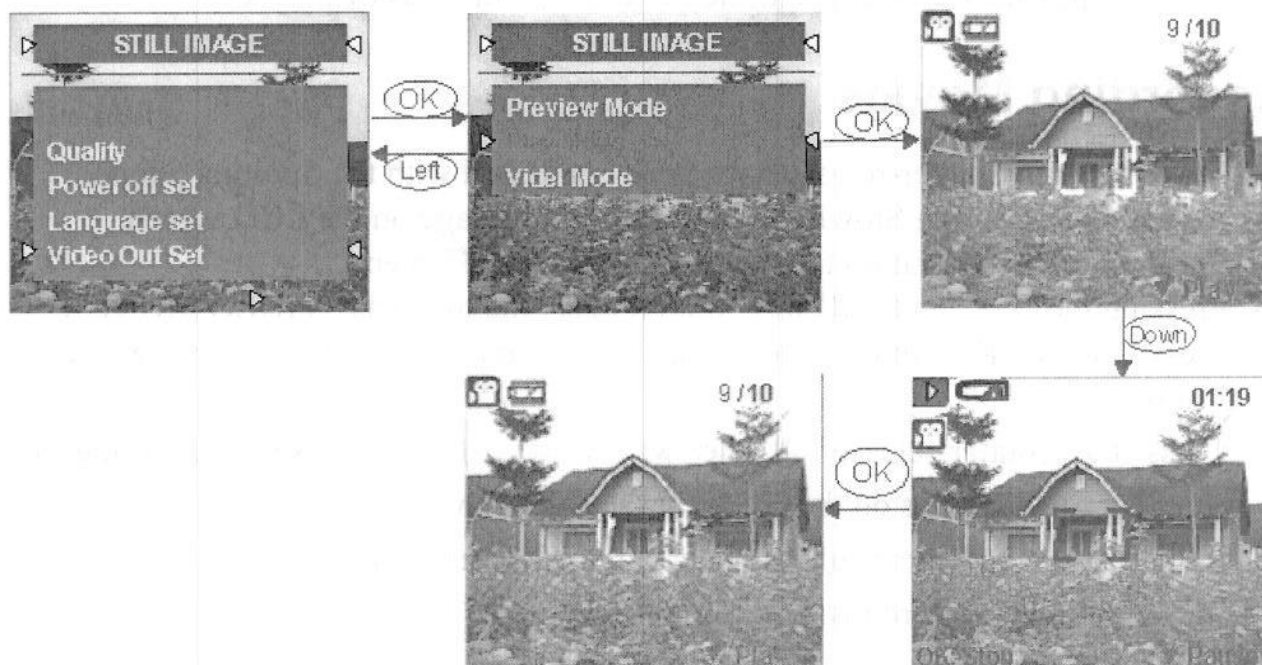
- Make sure the Shutter-release have been connected with the Spotting Scope.
- Adjust the focus ring Slowly till you get a clear image on the LCD screen.
- Press "Menu/OK" Button to enter the "MODE SET" menu.
- Pressing the "UP" and "DOWN" button to set the mode as "VIDEO MODE".
- Press "Menu/OK" Button to confirm. The recordable time appears on the screen at same time.
- Press the shutter-release all the way down slowly to start recording. The recording time appears on the screen at the same time.
- Slowly press the Button fully down again to stop recording.
- The operation flows are just the following:



Viewing Movies

How to view movies on the LCD screen

- Just operate as “How to view still images on LCD”.
- If the file is a movie instead of a still image, it will show  on the LCD with the word “Play” shining on the screen.
- Press “Down” Button, the movie will be displayed on the LCD automatically.
- Press “Down” Button again for pause.
- Press “Menu/Ok” Button for stop.



How to view movies on a TV set

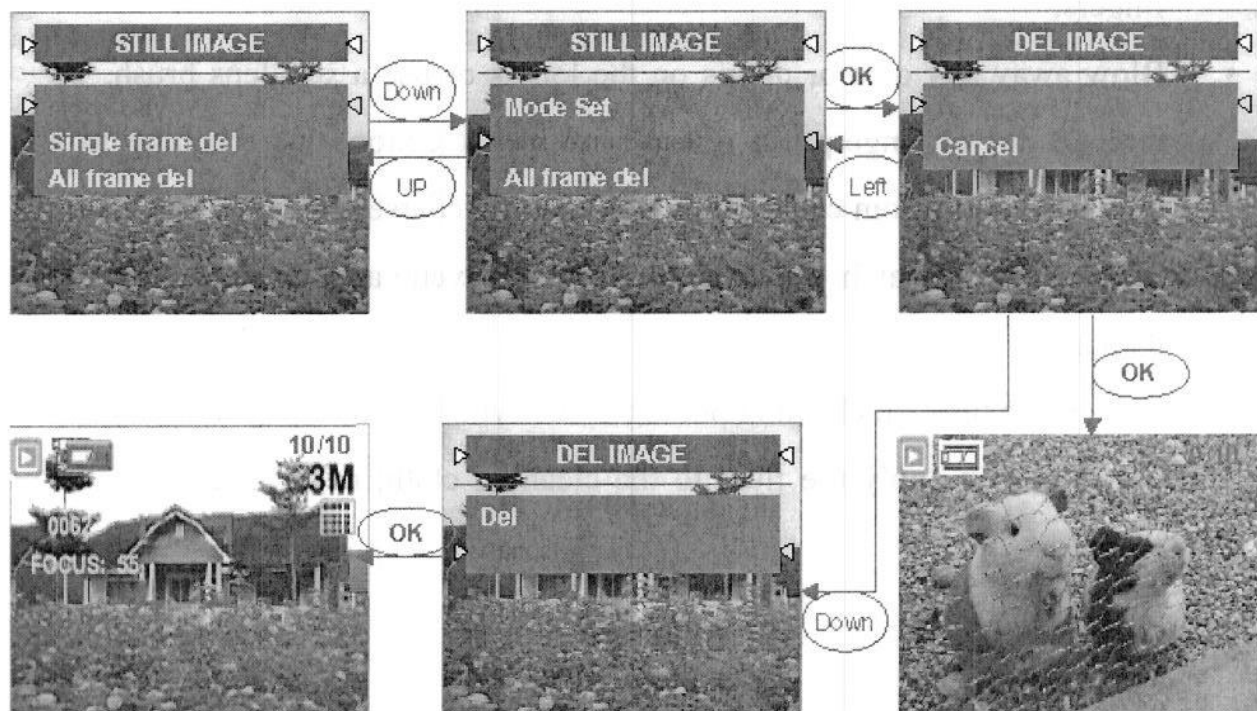
- Make sure your Spotting Scope is under the “Play Mode”.
- Then turn on the TV and set the TV/Video switch to Video.
- Make sure the color system must match that of your DSS.
- Just operate as the above on “How to view movies on the LCD screen”.

How to view movies on a computer

- Make sure your Spotting Scope is under the “Play Mode”.
- Just operate as “how to view still image on a computer” portion.

Deleting Still Images & Movies

- Make sure that the Spotting scope is under the Play Mode.
- Use “Left” or “Right” Button to select the file you want to delete.
- Press “Menu/Ok” Button to enter the Delete Mode.
- For all images deleting:
 - Select “All Frame Delete”, then press “Menu/OK” Button.
 - Select “Del” and press “Menu/Ok” Button to delete all the recorded files; select “Cancel” and press “Menu/OK” Button to cancel the deleting.
- For single image deleting:
 - Select “ Single Frame Delete”, the other steps are the same as “all image deleting”
 - For continuously deleting, repeat the above steps.



Setting the Auto Power-off Time

Your Digital Spotting Scope has the function of Auto Power-off Time setting from 3 minute up to 240 minutes.

- Press "Menu/OK" Button to enter the main menu.
- Press "Down" Button to highlight "Auto Power-off Set" menu.
- Press "Menu/Ok" Button to enter the "Auto Power-off Set" mode.
- Press "Up" or "Down" Button to select the desired auto power-off time.
- Press "Menu/OK" Button to confirm.

Care & Storage

- When not in use, store your spotting scope with the protective lens covers on in a moisture free environment. Avoid touching the lenses with your fingers.
- Blow away any dust or debris on the lenses or use a soft lens brush. To remove dirt or fingerprints, clean with a soft cotton cloth rubbing in a circular motion from center outward. Use of a coarse cloth or unnecessary rubbing may scratch the lens surface and eventually cause permanent damage.
- For a more through cleaning photographic-type lens-cleaning fluid may be used. Always apply the fluid to the cleaning cloth; never directly to the lens.

DSS 154560 SPECIFICATIONS

1. SPOTTING SCOPE (TELESCOPE) SPECIFICATIONS

OBJECTIVE LENS	60mm Multi-coated Lens
MAGNIFICATION	15x – 45x Zoom
ANGLE OF VIEW	2.7 – 0.9°
FIELD OF VIEW AT 1000M	47 – 16m
EXIT PUPIL DIAMETER	4 – 1.32mm
EYE-RELIEF	13.9 – 15mm
FOCUS	Prismatically Manual
FOCUSING RANGE	6m -- ∞

2. DIGITAL SPECIFICATIONS

IMAGE SENSOR	3.1 Mega Pixel CMOS
LENS	60mm Lens Multi-coated
FOCAL LENGTH	366.3mm (2198mm/35mm Film Equivalent)
FOCUSING RANGE	6m -- ∞
FOCUS	Manual with Frame Indication
WHITE BALANCE	Auto
MONITOR	2.5" TFT LCD
STILL IMAGE FILE	JPEG
IMAGE QUALITY	High/Middle/ Low
STORAGE MEDIA	SD Memory Card
PLAY BACK FUNCTIONS	1 Frame Slide Show, Delete Function
DIGITAL ZOOM	5x under Preview Mode
INTERFACE	USB1.1, Video-out (PAL/NTSC)
AUTO POWER-OFF	3—240 Minutes
POWER SUPPLY	4 AA Batteries, 6V AC Adapter (Option)