NOTE: What is given below is basic to the general operation of the camera—the things you are most likely to need in common shooting situations. There are many functions of the camera (e.g. fades, digital effects, titles) that are best undertaken during editing. There also are many functions that are for special situations (e.g. shutter speed, exposure, memory, still photography, self-timing, all the menu settings). If you have special needs, consult the operating manual.

**Initial Preparations**

1. Attach either the battery or the AC adapter.
   - Battery – Lift the viewfinder, take the cap off the battery, slide the battery into the back of the camera with the arrow pointed down until it clicks into place.
   - AC adapter – Plug the power cord into a wall outlet on one end and the AC adapter on the other end. Plug the cord from the other end of the adapter into the back of the camera under the flap that says DC in.

2. Insert a mini DVCAM cassette tape – Make sure the cassette tab is set to record. Press the blue eject button on the right side of the camera and slide its switch down to open the tape compartment. Insert the cassette with the window facing out. Close the cassette compartment by pressing where it says Push.

3. Remove the lens cap by pressing the knobs on both sides.

4. Turn on the power on the back of the camera – Push the green button and turn the power mechanism to Camera. A picture should appear in the viewfinder.

5. Connect and/or check audio.
   - There is a speaker in the camera by the LCD screen that operates during playback. However, to check audio at other times, it is a good idea to have headphones with a miniphone connector at the end. Connect this miniphone connector to the green connection under the cap on the front right of the camera.
   - The built-in camera mic on the front of the camera will work automatically. However, it is not highly desirable because it picks up noise close to the camera much better than it picks up sound by what is being taped.
   - You can connect an external microphone with a miniplug connection by attaching it under the mic cap on the front right of the camera.
   - For the best sound, attach a mic with an XLR connector. For this you need the XLR adapter that is in the case. Loosen the screw on the bottom of the adapter and insert the part with the arrow on it into the shoe on the top of the camera. Tighten the screw. Attach the XLR mic cable to the XLR connection on the side of the adapter.

6. Select and check the picture monitoring devices.
   - The viewfinder on the top of the camera will come on with the power. You can raise and lower it and can also adjust the sharpness of the picture with the dial that is on the bottom of the viewfinder.
   - To open the LCD screen, press Open on the left side of the camera and swing the screen out. This screen also rotates so that it can be turned over so that someone standing in front of the camera can see the image. The top viewfinder does not work when the LCD screen is used. The LCD screen drains the battery faster than the viewfinder. If you want to see viewfinder displays on the LCD screen, press Display on the controls next to the LCD.

7. Put the camera on a tripod by screwing the tripod into the bottom, or hand hold.
To Record and Playback

1. With your hand through the strap, use your thumb to push the red button on the power switch to start recording. Push it again when you want to pause.

2. Use the W (wide-angle)–T (telephoto) toggle on the top to zoom in and out.

3. If you want to focus manually, put the focus switch on the front left to manual and adjust the focus ring at the back of the lens. If, while you are focusing manually, you want to go to automatic focus momentarily, push Auto. You can also use the Infinity focus to focus on a faraway subject. Most of the time you can leave the camera in Auto focus.

4. If you are shooting with bright backlight, press the backlight control on the top of the camera so that facial features show up better.

5. If you are in very bright outdoor light, you may want to use the neutral density control on the top of the camera.

6. If you want a wider shot, attach the wide conversion lens hood provided in the case. Make this change over a carpet or something soft as it is easy to drop the lens. Take off the old lens hood by turning the ring behind it to the left. Remove the cap from the bottom of the wide angle hood. Put the wide angle lens on the camera and tighten the ring. Remove the lens cap.

7. You can play back either while the power setting is in the camera mode or while it is in VTR.

   A. While in the camera mode, press the minus side of Edit Search on the top of the camera. You will see the last few seconds of what you just recorded. You can hear sound from a headphone (if you are using the viewfinder) or from the speaker (if you are using the LCD screen). If you want to see back further, you can hold Edit Search down. To go forward, press and hold the plus side of Edit Search. You will not hear sound when you press and hold.

   B. For more flexible playback, use the VCR function. Press the green button on the power control and turn the control to VCR. Lights will come on the top of the camera that show normal VCR controls (play, fast forward, etc.) Press these for the desired functions. If you are using the viewfinder to view, you will need headphones in order to hear the audio. If you are using the LCD screen, the sound will come from the speaker built into the camera.

To Put Away

1. If the camera is on a tripod, take it off.

2. Turn the power switch to off.

3. Remove the tape by pressing the blue button on the left side and sliding the eject switch down.

4. Remove the battery by lifting the viewfinder, pressing Batt Release on the top of the camera, and lifting the battery up and out. OR Remove the AC adapter by disconnecting the cable from the DC in connection and unplugging it from the wall. Coil the DC adapter cable and the power cable separately.

5. Replace the lens cap.

6. Remove any audio equipment that you have attached to the camera.

7. Put the viewfinder down and close the LCD door.

8. Put everything back in the case where you found it.

9. If you want to charge the battery, connect the AC adapter to the camera and a wall socket and put the battery on the camera. Look at the window on the right side of the camera and it will tell you how much battery time remains and how charged the battery is.