

----- **SET UP** -----

1. Put on a charged battery
 - Always charge batteries after use. They don't like being left in a discharged state. Also, you never know when you may need to shoot in a hurry.
 - Be courteous. Don't hand over your camera to its next user with dead batteries. If you can't charge them, put on some white tape noting the amount of charge remaining.
2. Insert a cassette.
 - In DVCam mode, a 60 minute tape lasts 42 minutes.
 - DVCam, MiniDV, DVC, Whatever Brand - They all work. The "Pro" tapes you can buy in the Cinema Store are a good deal, and the people in the edit labs say they work best, but in a pinch, you can use what you can buy in any drugstore. THE IMAGE QUALITY IS THE SAME NO MATTER THE BRAND OR PRICE. Some brands may be more or less reliable in specific equipment, but all data on this is purely anecdotal.
3. Focus the Eyepiece to YOUR vision.
 - Believe it or not, the tiny monitor in the viewfinder is sharper than the flip out screen, and should be used to judge critical focus.
4. Mode Settings
 - Open the Flip-out screen
 - Push the "Menu" button
 - Use the select wheel to scroll through menus and make selections
 - MANUAL SET
 1. Auto Shutter – OFF
 2. Progressive Scan – Off
 - CAMERA SET
 - i. Digital Zoom – OFF
 - ii. 16:9 Letterbox – OFF
 - iii. Steadi-Shot – ON
 - iv. AE Shift – Middle Setting
 - v. Gain shift - -3db
 - vi. Frame Record – OFF
 - vii. Interval – OFF (This is for time lapse)
 - LCD/VIEWFINDER SET
 - i. LCD – Middle Setting (Can be set brighter when outdoors – Beware faster battery drain.)
 - ii. VF – Middle Setting (Neither setting effects the recorded image.)
 - CASSETTE MEMORY SET
 - i. None Necessary
 - TAPE SET
 - i. Audio Mode – 48hz
 - ii. Mic Level – MANUAL
 - iii. Tape Remain – AUTO
 - iv. Time code – DF (Drop Frame)

- SETUP MENU
 - i. Ignore this.
- OTHERS
 - i. World Time – 0
 - ii. Beep – on (unless you're shooting secretly for some reason or want to be discrete)
 - iii. Commander – Off (Unless you're using a remote for some reason)
 - iv. Display – LCD
 - v. Record Lamp – ON (unless you're shooting secretly for some reason or want to be discrete)

 - vi. Color Bars – Off. (Record 30 seconds of Bars at the beginning of each shooting tape to calibrate your monitor.

----- **MANUAL SHOOTING** -----

Yes, if you leave everything on AUTO you will get an image, but you're not using the full image manipulation abilities of your camera. It's just guessing what kind of exposure is best based on certain parameters. It doesn't know what you're going for. Remember – *You* are smarter than your camera. Don't be afraid to make mistakes, they are the best teachers. If you want an effect you can't figure out how to do, just ask us. We're here to help.

- White Balance
 - i. Shift AUTO LOCK to HOLD.
 - ii. Press White Balance button to find either SUN for Exterior, or LIGHT BULB for interior
 - iii. For creative control of White Balance:
 1. Shift Auto Lock to the middle position.
 2. Press white button until you see the triangle position
 3. Point camera at white paper and press the set wheel.
 4. Put Auto Lock to the HOLD position. The camera will remember this white balance setting even when shut off.
- Exposure
 - i. Set Zebra Button on side of camera to 100
 - ii. Press Exposure Button on back of camera and set exposure by turning set wheel.
 1. The primary f-stops are 2, 2.4, 4, 5.6, 8, and 11. The lower numbered stops let in more light, and the higher ones let in less. Each stop lets in twice
- Focus
 - i. Set focus to AUTO
 - ii. Zoom into your subject and let the camera get it in focus.
 - iii. Switch Focus back to MANUAL
 1. This will keep your subject in focus and keep the lens from "hunting" for other objects during the shot.