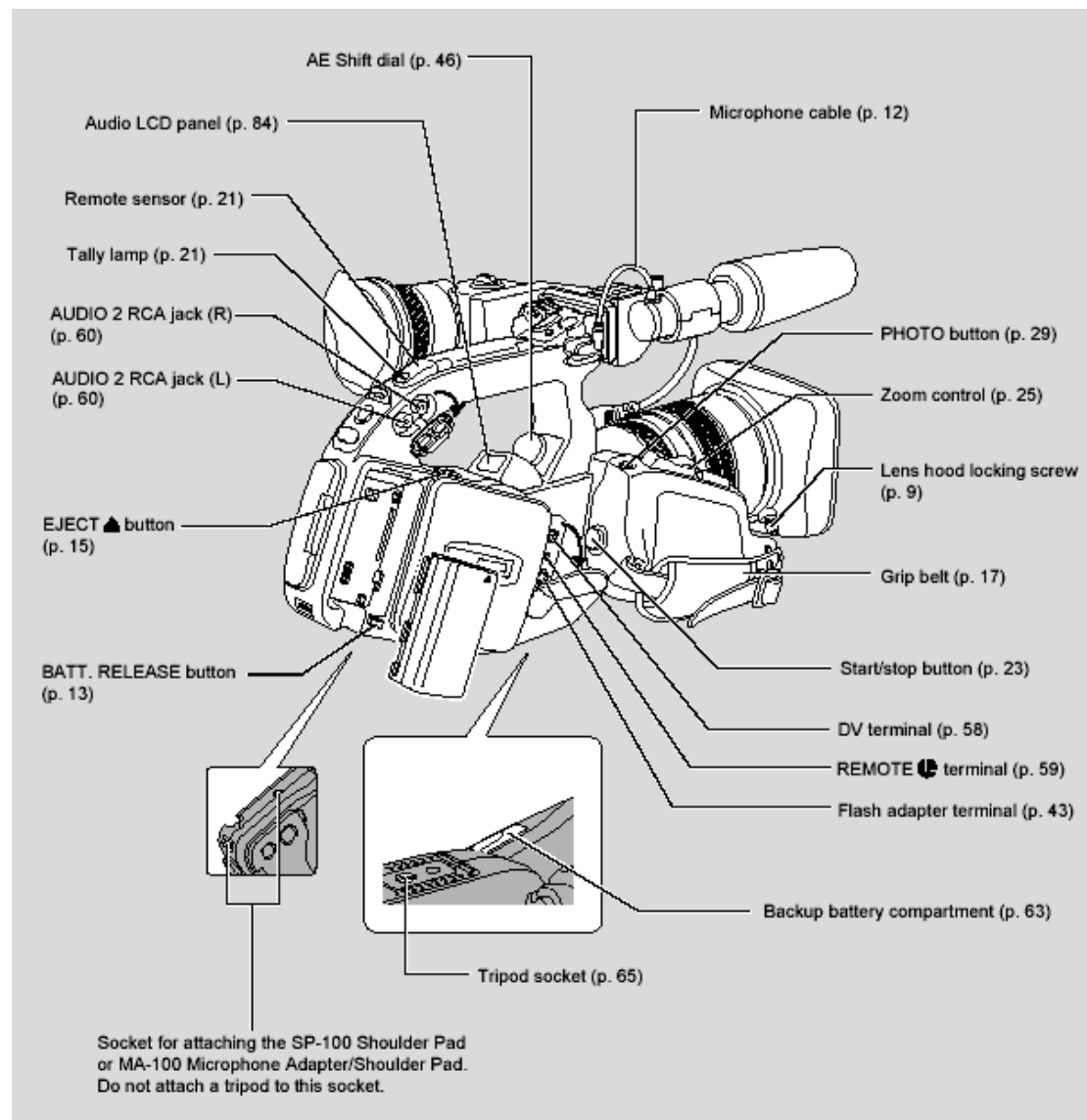
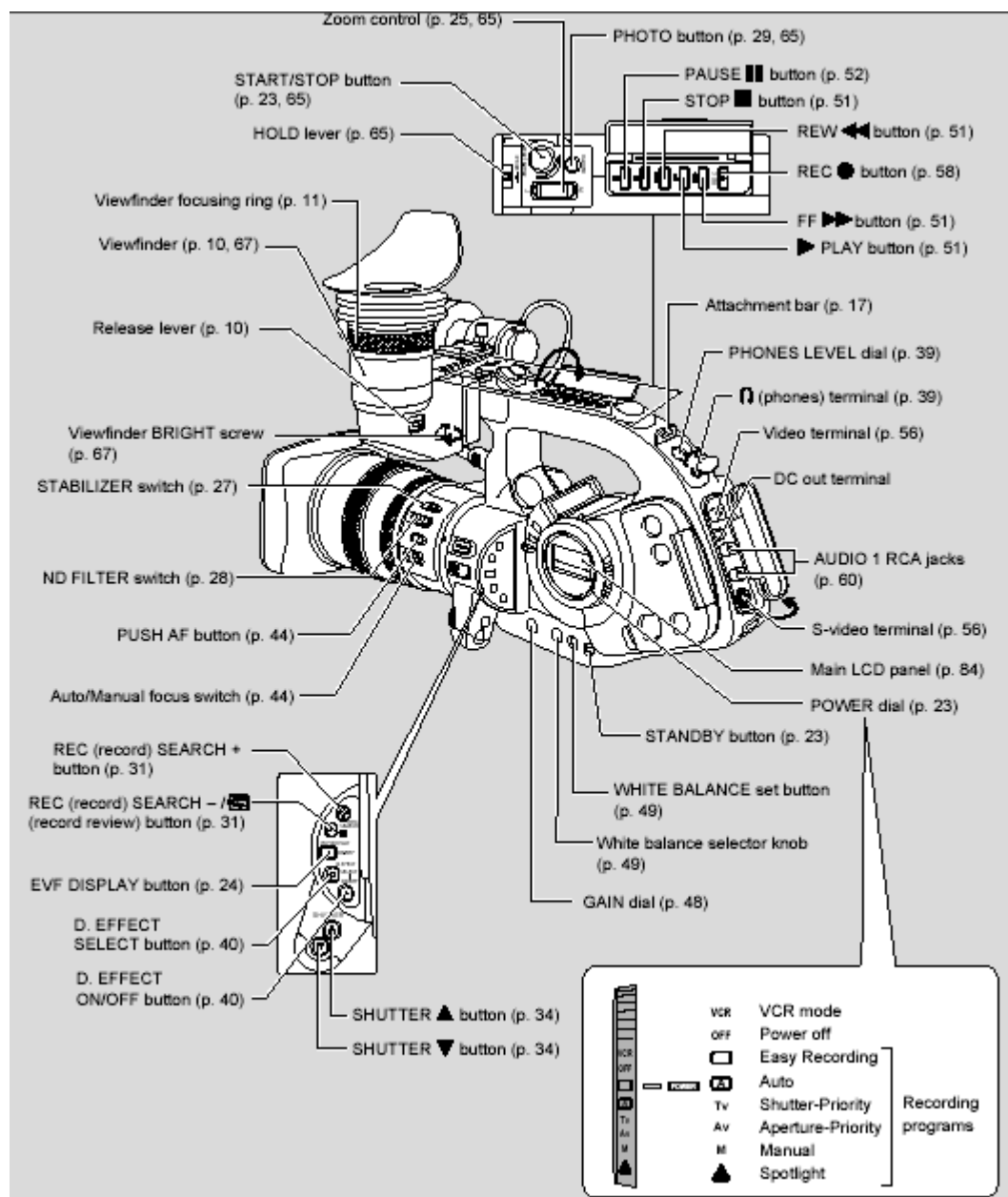


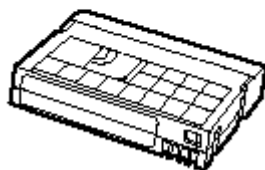
CANON XL1 Guide





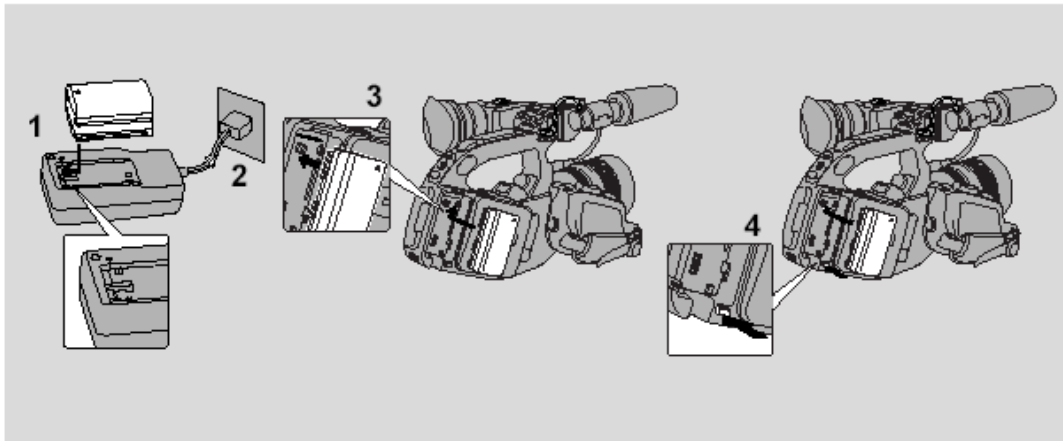
Canon XL1 – Essential components

BP-927 Battery Pack Digital Video Cassette Lens hood



Attaching battery

Charging and attaching the battery pack



Your battery pack was partially charged before it left the factory. It should have enough power for you to check that your camera is working properly. However, you must charge the battery pack fully if you want it to power the camera for more than a few minutes.

- 1. Attach the battery pack to the power adapter.**
 - Align the triangle on the battery pack with the line on the power adapter.
 - Slide the battery across until it clicks into place.
 - Make sure the DC coupler is not connected.
- 2. Plug the adapter into an AC outlet.**
 - The charge indicator flashes red to show that charging is in progress. Single flashes mean that the battery pack is less than 50% charged. Double flashes mean that it is between 50% and 75% charged. Triple flashes mean that it is more than 75% charged.
 - The indicator glows steadily when the battery pack is fully charged.
- 3. Take the battery pack off the adapter and attach it to the camera.**
 - Align the triangle on the battery pack with the line on the camcorder, then slide the battery up in the direction of the arrow until it clicks into place.
- 4. Remove the battery pack after use.**
 - Press and hold the BATT. RELEASE button, while you slide the battery down.
 - Always turn the camera off before removing the power source.

Getting Started – Set the XL1 for manual operation

Turn the Jog wheel on the left hand side of the camera to **M (for fully manual)**.

Manual

Select this program for total creative freedom when operating the camcorder. You can set aperture and shutter speeds completely independently to give you exactly the exposure you require.

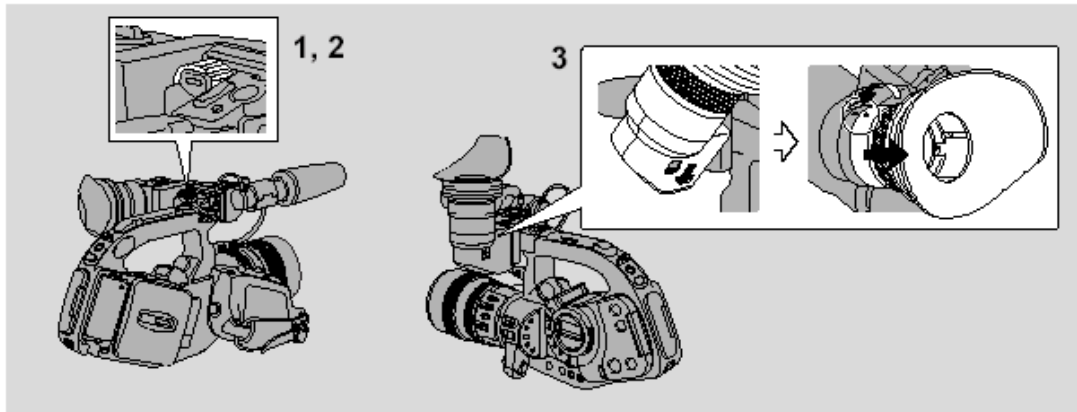
M

There are 27 shutter speed settings, between 1/60 and 1/15000 of a second and 27 aperture values, between f/1.6 and f/16 (you can also close the iris.)

Loading a Cassette

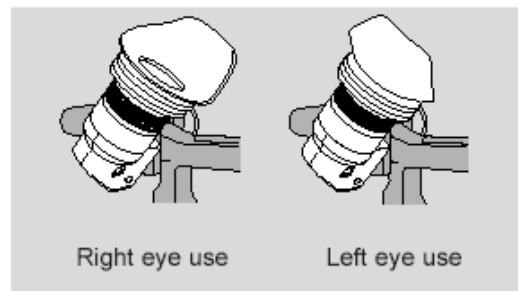
Adjusting the Viewfinder

Adjusting for left eye/right eye operation



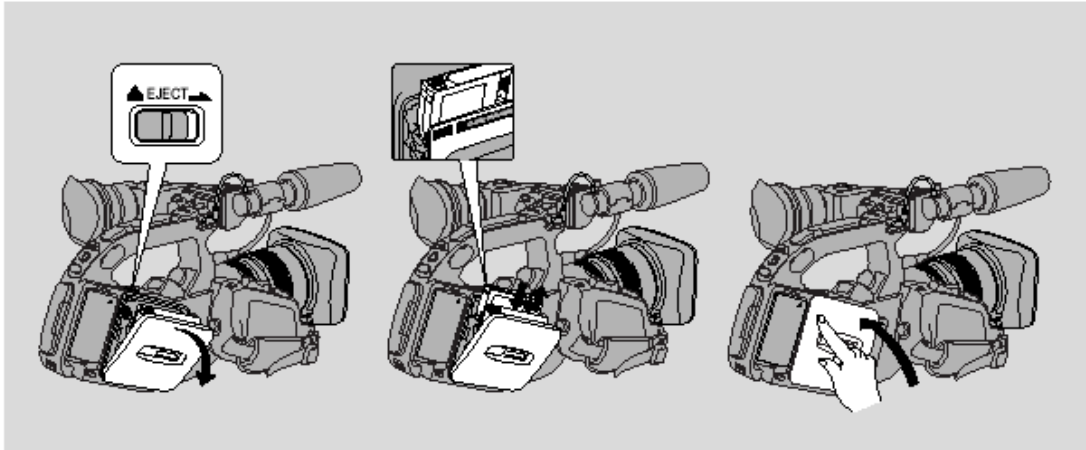
You can slide the viewfinder unit along the bracket to a position that best suits you — for use with either the left or right eye.

1. Loosen the locking screw and slide the unit to the position you require along the bracket.
2. Tighten the locking screw.
3. Switch the eye cup around (if necessary).
 - Slide and hold the release lever on the underside of the viewfinder and then twist the eye cup counter-clockwise (until the mark on the eye cup lines up with the mark on the viewfinder) to allow you to remove it from the viewfinder. Replace, with the eye cup facing the opposite direction, by lining up the marks and twisting the cup clockwise until it locks into place.



Insert a tape

Loading a Cassette



Use videocassettes marked with the **MinDV** logo only.*

Loading and unloading

1. Make sure that you have inserted a power source.
2. Slide the **EJECT** ▲ button across to release the cover.
 - Wait a couple of seconds for the cassette compartment to open automatically.
3. Load or unload the cassette.
 - Insert the cassette gently with the window facing out.
 - Remove the cassette by pulling it straight out.
4. Press the **PUSH** mark on the compartment until it clicks.
5. Click the cover back into place.

Focussing

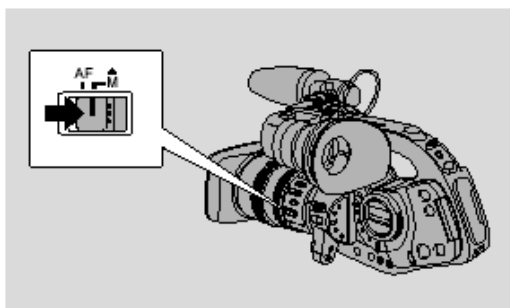
Adjusting the Focus

The camera can focus automatically. All you have to do is point it, and whatever is in the center of the display will usually be in sharp focus. If it does not seem to be focusing well, it may be because the subject is not suitable for autofocus (page 70). Also, if you attach a filter other than UV or ND, the autofocus may not work as effectively.

It also has functions which give you more control over focusing. Operate these from the body of the XL lens.

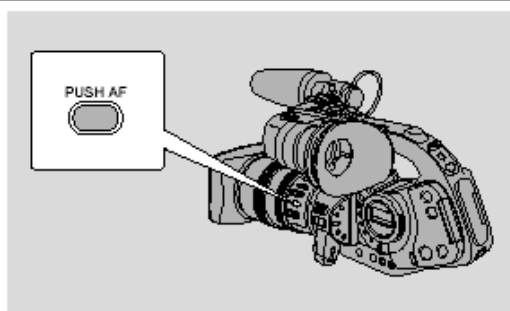
Manual focus

1. Slide the focus switch on the body of the XL lens to M (manual).
2. When using a zoom lens, rotate the zooming ring to the telephoto end.
3. Rotate the focusing ring to adjust the focus.
4. When using a zoom lens, use the zooming ring to reframe the subject.
 - To resume autofocus, slide the focus switch to AF (auto).
 - If you focus manually then leave the camcorder with the power turned on, you may lose focus on your subject. This possible slight shift in focus is due to a rise in temperature in the camcorder interior and lens. Check the focus before resuming shooting.



Push autofocus

Press the PUSH AF button during manual focusing, to quickly adjust the focus automatically. The camera will continue to focus automatically as long as you hold down the button. Release the button to continue to set the focus manually.

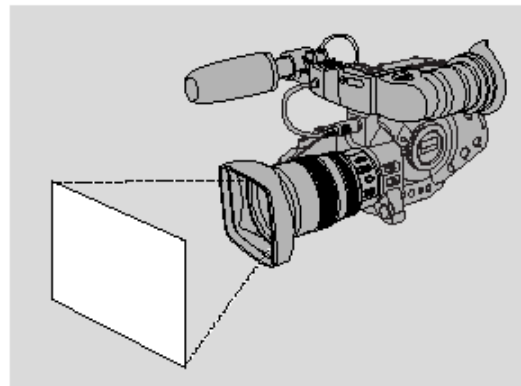


Setting the White Balance

Adjusting the White Balance

The camera's auto white balance system compensates for a wide range of lighting conditions. Although slight variations are unavoidable, colors will appear natural in virtually every situation.

In some cases, you will get better results by setting the white balance manually.



The XL1 has two modes other than fully auto (A) and manual ():

 Indoor mode (3200°K light)  Outdoor mode (5600°K sunlight)

Setting the white balance

1. Turn the POWER dial to any recording program (except the  Easy Recording program).
2. Press the white balance selector knob so that it pops out. You can now turn it to choose between A for auto white balance,  for indoor lighting,  for outdoor lighting, or turn it to the right to set the white balance manually.
 - / appears in the viewfinder when you set the white balance to the indoor/outdoor modes.

After turning the knob to the right, you can go on to set the white balance manually:

- a) Point the camera at a white object (such as a sheet of paper) and if you are using a zoom lens, zoom in until it fills the display.
- b) Press the WHITE BALANCE set button.
 -  flashes quickly in the viewfinder and then remains lit, to show that the camera has set the white balance.
 - Depending on the light source, the flashing may at times change to a slower speed, rather than remain lit. The result will remain better than with the auto setting, and you can continue recording.
- c) Turn the white balance selector knob back to A to return to the auto setting. Push the knob back in when you have finished making selections.

Setting the white balance manually will probably work better than auto white balance when shooting:

- Subjects with one dominant color, such as sky, sea or forest.
- Close-ups.
- In rapidly changing lighting conditions.
- In places lit by certain types of fluorescent or mercury vapor lights.

Notes:

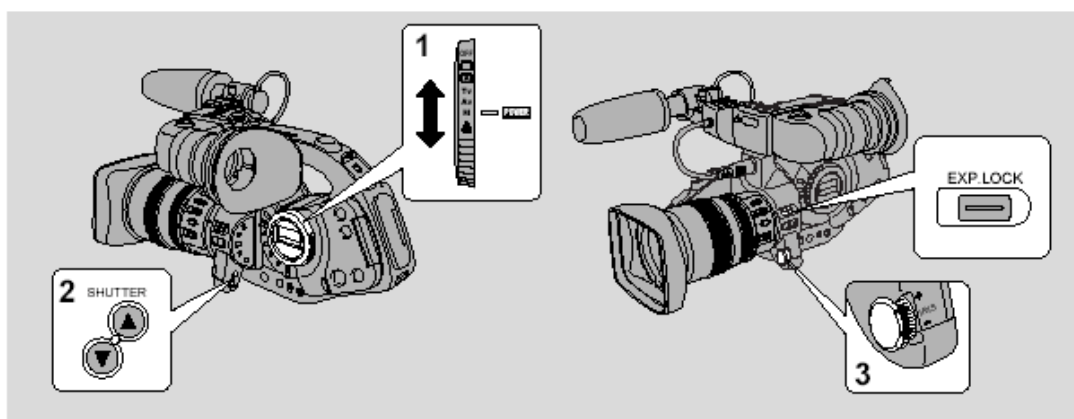
- If the lighting conditions change, reset the white balance by first returning to the auto setting, and then reselecting the manual balance.
- Try to record with light from a single source. Correct white balance cannot be obtained for two types of lighting at once.
- You cannot set the white balance manually or use the indoor/outdoor modes when the POWER dial is set to the  (Easy Recording) program. If you are already using a mode other than auto, the white balance returns to auto while you are in the  (Easy Recording) program.
- When you push the STANDBY button without changing the POWER dial, the current white balance setting remains in the memory.
- If you shoot with studio/video lighting, use the  (indoor) mode.
- If you shoot under fluorescent lights use the automatic white balance or set the balance manually, since the camera may not adjust the white balance correctly in the  mode.
- When you turn the camera off, the camera remembers your white balance setting.

Setting the Exposure – Iris and Shutter

The iris and shutter control the amount of light entering the camera.

Adjusting the Exposure

Set the aperture value (of the iris) and the shutter speeds completely independently to give you total creative freedom in setting the exposure.



1. Turn the POWER dial to the Manual recording program.
2. Press the SHUTTER ▲ and ▼ buttons to increase or decrease the shutter speed.
 - Set the shutter to one of 27 speeds between 1/60 and 1/15,000 of a second.
3. Turn the IRIS wheel to open or close the iris.
 - Set the aperture value to one of 27 F numbers between f/1.6 and f/16, or select CLOSE to close the iris completely.

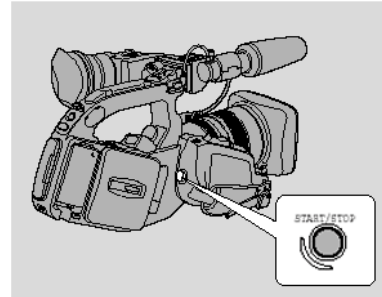
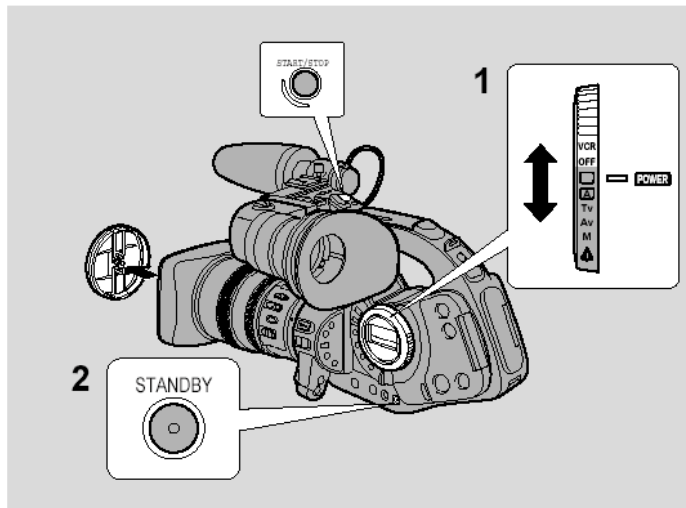
You can also vary the exposure manually in the Auto, Tv and Av modes, but you must first lock the exposure to activate the SHUTTER buttons and the IRIS wheel.

- The maximum and minimum settings for the shutter and aperture are the same, but there are 9 possible speeds and 8 possible F numbers.

Basic Recording

After the battery is correctly attached, a tape is inserted and you have setup the camera's manual functions (white balance, the iris, the shutter and focussing) its time to record!.

Basic Recording



Before you start recording

- Attach a power source
- Load a cassette
- Remove the lens cap
- Adjust the viewfinder