



Operating Guide for Sony VX-1000

Camcorder and Palmcorder Proficiency Required

16MM WORK ORDER REQUIRED

3 Chip Digital Camcorder—Proficiency Required

Precautions:

Avoid mechanical shock
Keep the camcorder away from strong magnetic fields or mechanical vibration
Keep the **POWER** switch set to **OFF** when not using
Do **Not** use near water
Do **Not** aim at the sun or other bright objects
Do **Not** expose camcorder to extreme temperatures
Do **Not** leave unattended (remember borrower is totally liable for lost or damaged equipment)
Do **Not** touch the surface of the lens
Do **Not** try to clean the electronic viewfinder or LCD panel
Do **Not** lift or carry by the viewfinder
Do **Not** wrap up the camcorder and operate since heat may build up internally
Do **Not** force camera to accept tape.
Do make sure that there is no protruding labels on the tape (can interfere with cassette insertion)
Do test before checking out & returning to Media Loan

Specifications:

Image Device: 3 CCD's (Charged Coupled Device)
Video Recording System: 2 rotary heads, helical scanning system
Video Signal: NTSC color
Format: Use mini DV cassette ME (metal evaporative)
Recording and Playback Time: 1 hour with a 60 min. tape @SP
Resolution: Over 500 lines
Viewfinder: Color LCD
Zoom: 10x optical; 20x digital; (42-420mm when converted to a 35mm still camera)
Photo shot: Captures more than 500 images on a 60 minute tape
*Iris: Between F1.6 and F11. *Note: When focusing in telephoto, cannot use F1.6*
Shutter Speeds: 1/4 to 1/10,000
Min. Illumination: 4 lux (F1.6); recommended more than 100 lux.
Audio Recording Format: Rotary heads, PCM (Pulse Code Modulation) system: 16 bit (48 kHz), or 12 bit (32 kHz)
Mic: 4-capsule stereo w/external mic jack
Battery Power: Typical recording time (with a full charged battery)=40 min.

Manual Controls:

Program Auto Exposure (3-mode AE): Shutter priority, iris priority, and night mode
Manual exposure: Iris and gain (20 step), shutter speed (16 speeds)
Manual White Balance
Custom Preset: Controls auto exposure shift, white balance.

Media Loan VX1000 Package Includes:

AC adapter w/battery charger and DC cable
Dubbing cables (S-VHS & RCA)
Remote control
Hood cap
Two eyecups
Pelican case
BeachTek Dual XLR Adapter



Special Features:

*A/V Digital Fader and Overlap Transitions: Fades to/from black or from previous still pictures
*Photo Mode: Records still image and audio signal for 7 seconds
*Interval and Frame Recording: For single frame recording and time-lapse effects
*2-Speed Search Feature
*Steadyshot Picture Stabilization
*Zebra-Pattern Feature: Indicates overexposed areas
*Full Range Auto Focus: From macro to infinity
*ND Filter: Prevents picture from going out of focus under bright light conditions

Editing:

*DV Interface: For direct input and output, digital-to-digital audio and video editing with virtually no quality loss (A/V control)
*Time Code: For hour, minute, second, and frame; identifies and locates scenes for editing

Media Loan
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Supply Power with a Battery:

1. Slide the battery door OPEN button to OPEN the battery cover.
 2. Gently insert the battery pack (making sure the arrow on the battery is pointing toward the battery compartment) until it is hooked by the RELEASE knob.
 3. Close cover.
 4. Press the center button on the POWER switch, set to CAMERA or VTR.
- To remove the battery, open the battery door and slide the RELEASE knob leftward..



Supply Power with AC Adapter:



1. Connect the AC power cord to an outlet.
 2. Connect the camcorder and the AC power adapter using the supplied cord.
- When not in use, unplug the AC adapter from the outlet..

Cassette Insertion:

1. Connect the camcorder to a power source (battery or AC)
2. Slide EJECT button. The cassette compartment automatically lifts and opens.
3. Insert a cassette with the widow facing out..



4. Gently! Press the outside of the compartment cover to close.
5. Wait for the compartment to automatically retract!



6. After the cassette compartment cover has retracted, press the upper cassette compartment flap until it clicks.

Camera Recording:

1. Remove the hood cap, and attach it to the grip strap.
2. While pressing the center button on the POWER switch, set it to CAMERA.
3. Turn STANDBY switch upward.
4. Press START/STOP button. The camcorder starts recording. The "REC" indicator appears in the viewfinder, and red lamp indicator lights up in the front and the back of the camcorder.
5. Press STOP/START to stop recording. STBY appears in viewfinder and the red lamp goes off.



Photo Recording:



1. Set the STANDBY switch to PHOTO STANDBY.
2. Keep pressing the PHOTO button lightly until a still picture appears in the viewfinder. To change the still picture, release the PHOTO button. Select another still picture and keep pressing the PHOTO button lightly.

3. Press the PHOTO button deeper. This still image and sound is recorded for 7 seconds. *If the POWER or STANDBY switch is moved during the photo shot, the operation of these switches is performed after the 7 second photo shot.*

Changing Mode Settings:

1. Slide OPEN and open the battery cover door.
2. Press MENU to display the menu in viewfinder
3. Press ↑ or ↓ to select desired item, then press EXECUTE.
4. Press ↑ or ↓ to select desired mode, then press EXECUTE.
5. Press MENU to erase menu display.



Releasing Steadyshot Feature:

1. Slide OPEN and open the battery door cover.
2. Set the STEADYSHOT MODE on the rear of the battery cover to OFF so that the "hand" indicator disappears.

To Activate Steadyshot Feature:

1. Set to Steadyshot to ON to display the "hand" indicator in the viewfinder.

Note: the Steadyshot feature detects and compensates for normal camera-shake, but this won't correct for excessive camera-shake.

Using the Overlap Function:

1. Slide OPEN and open the battery cover.
2. Set DIGITAL MODE on the rear of battery cover to OVERLAP.
3. Press FADER/OVERLAP repeatedly until "OVERLAP" appears in the viewfinder. The stored last scene overlaps the scene being shot.

4. Press START/START to start recording.

The scene being shot gradually fades in over the still picture of the last recorded scene.

Notes on overlap function:

* You cannot set D ZOOM to ON. Once you set DIGITAL MODE to OVERLAP, D ZOOM settings are changed to OFF automatically.

Using the Fading Function:

1. Follow the steps in "Using the Overlap Function."
2. In step 3, press FADER/OVERLAP repeatedly until "FADER" appears in the viewfinder.


To use the fading function repeatedly, start from step 1 each time.

Notes on the fading and overlap function

* You cannot fade in, fade out, or use the overlap function while you record with interval recording, cut recording or photo recording.

* The last scene for overlap is stored only when you record and press START/STOP again (recording standby/pause mode) before using overlap. In other cases, this camcorder starts Rec Review automatically to store the picture on the tape before it overlaps the scene being shot.

Focusing Manually:

1. Set FOCUS to MANUAL while the camcorder is recording or in Standby mode. A "M" appears in the viewfinder.
2. Keep pushing the "T" (telephoto) side of the zoom button until the zooming stops.
3. Turn the focus ring to achieve a sharp focus. Turn the focus ring until  appears in the viewfinder in focus.
4. Set the desired shot length using the zoom button.



Using the PROGRAM AE Function:

1. Set HOLD/AUTO LOCK selector to the center (auto lock release) position.
 2. Press PROGRAM AE repeatedly to select the desired mode. The modes change AE A (Priority to iris) AE S (Priority to shutter speed),) (Twilight) or No indication (Manual), cyclically in the viewfinder.
- * Turn the CONTROL dial to select the desired exposure (iris) or shutter speed.






Two Ways of Adjusting the White Balance:

1. Set HOLD/AUTO LOCK selector to the center (auto lock release) position while the camcorder is in Standby mode.
2. Press WHT BAL repeatedly to select the appropriate white balance mode.



Each time you press the button, the indicator inside the viewfinder changes: No indicator (auto), "sun" (outdoor), "bulb" (indoor).

One-push White Balance Mode:

1. Set HOLD/AUTO LOCK selector to the center (auto lock release) position.
2. Press WHT BAL twice to display  in the viewfinder.
3. Shoot a white object such as paper fully in the viewfinder.
4. Press . The  indicator flashes rapidly. When the white balance has been adjusted and stored in memory, the indicator stops flashing.

Charging the Battery Pack:

1. Connect the AC power adapter to a wall outlet.
2. Align the surface of the battery pack indicated by the (mark with the edge of the terminal shutter of the AC power adapter. Then fit and slide the battery pack in the direction of the arrow. The CHARGE lamp (orange) lights up. Charging begins.

When charging is completed, the CHARGE lamp goes out. Unplug the unit from the wall outlet.

Charging Time: 190 minutes

Battery Life:

*Typical recording time: 40 minutes

*Continuous using time: 80 minutes

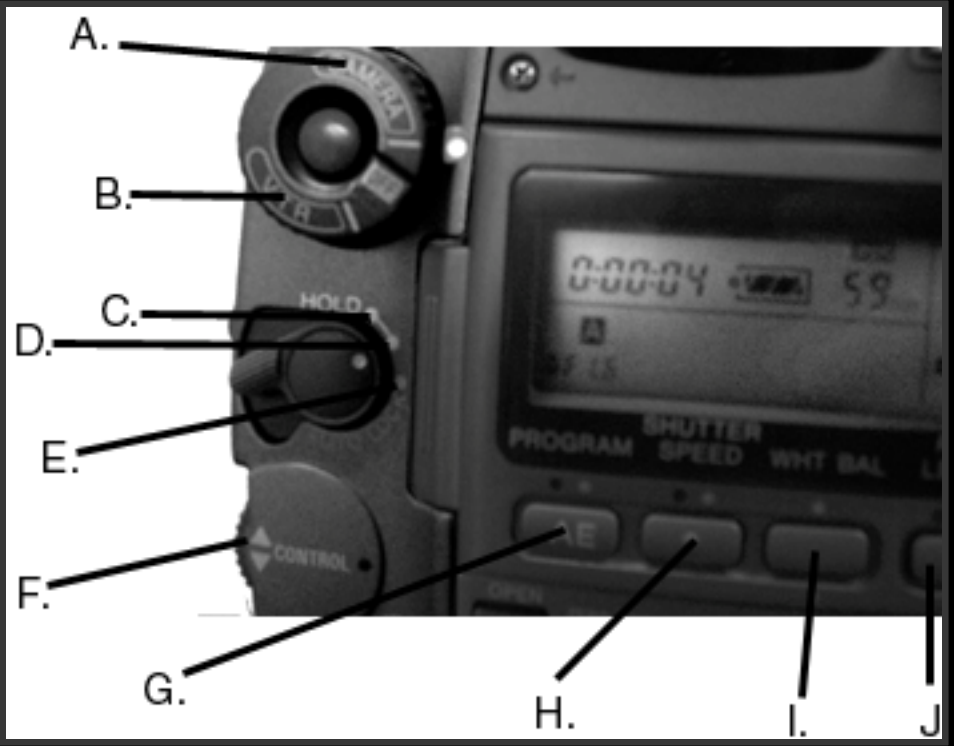
Sony VX-1000

To change the mode settings in the menu system: 1)Slide OPEN and open the battery cover; 2)Press MENU to display the menu in the viewfinder; 3)Press \uparrow or \downarrow to select the desired item, then press EXECUTE; 4)Press \leftarrow or \rightarrow to select the desired mode, then press EXECUTE. Repeat steps 3 and 4 to change the other modes; 5)Press MENU to erase the menu display. In the chart below "*" is **NORMAL**

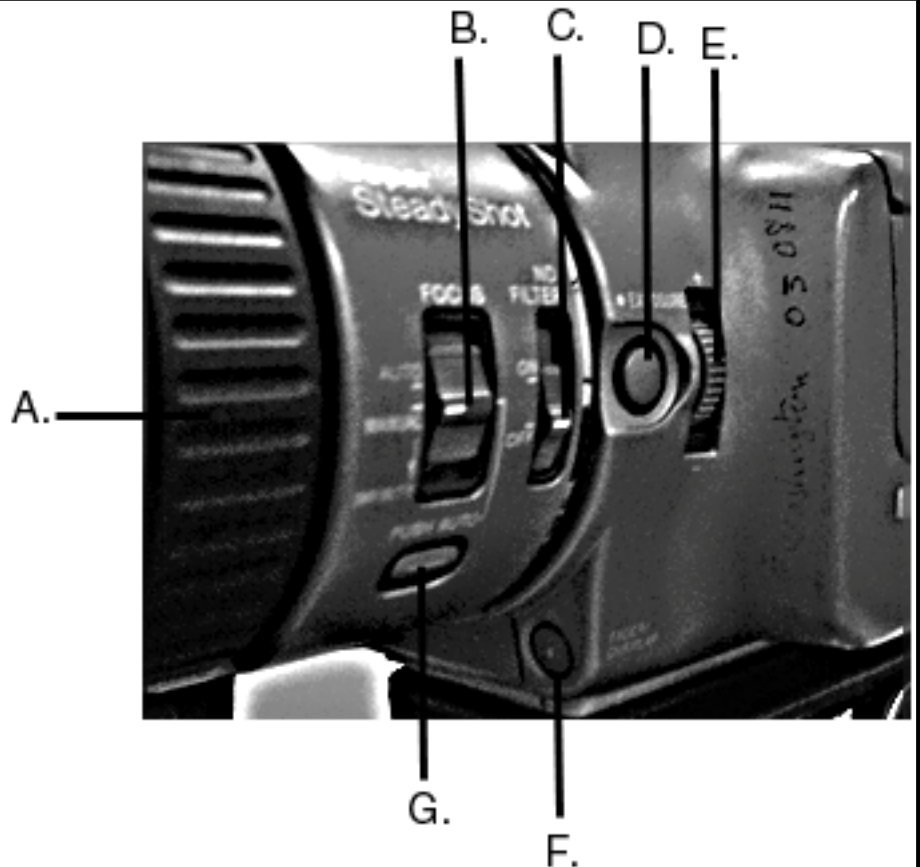
| Setting the Mode of Items in CAMERA and VTR Modes | | |
|--|---|---|
| 1. COMMANDER | *VTR4 OFF ID ID SET | Select VTR4 normally Select when not using a remote Select when using remote with the ID number set Select to register the ID number when using the same number as remote |
| 2. HEADPHONE | *LOW MID HIGH | Select LOW normally Slightly raises the volume of headphones Raises the volume of headphones |
| 3. EVF | RETURN COLOR BRIGHT | Select the item and change the level of the indicator by pressing \uparrow or \downarrow to adjust the color intensity Or brightness of picture in viewfinder. |
| 4. CLOCK SET | | Select to reset date and time. |
| Items in CAMERA Mode Only | | |
| 1. A SHUTTER | *ON OFF | Select ON normally Select OFF when adjusting shutter speed |
| 2. D ZOOM | *ON OFF | Select ON normally (Cannot select ON if OVERLAP switch is ON) Select OFF if using OVERLAP function. Zoom becomes 10x optical |
| 3. ZEBRA | ON *OFF | Select ON to indicate overexposed areas. Will not show up on recording Select OFF normally |
| 4. FRAME REC | ON *OFF | Select ON for cut recording. Automatically selects OFF when removed from power source |
| 5. INT REC | RETURN SET: *OFF/ON INTERVAL: 30sec, 1min, 5min, 10min REC TIME: 0.2sec, 0.5sec, 1sec, 2sec | Select RETURN to go back to main menu Select OFF normally unless using INT REC Select a time interval to set or change the waiting time for interval recording Select or change the recording time for the time interval |
| 6. SELFTIMER | *10sec 25sec | Select 10sec normally Select 25sec if more time is needed |
| 7. CUSTOM | RETURN SET: *OFF/ON COLOR LEVEL SHARPNESS WB SHIFT AE SHIFT GAINSHIFT *0dB/-3dB RESET | Select to go back to main menu Select OFF if not customizing/ Select ON if not using preset settings in the CUSTOM menu Change the levels by pressing \uparrow or \downarrow Change the levels by pressing \uparrow or \downarrow Change the levels by pressing \uparrow or \downarrow Change the levels by pressing \uparrow or \downarrow Select 0dB normally/ Select -3dB if subject is too dark (shifting too much can make noise level increase Select to reset adjusted levels |
| Items in VTR Mode Only | | |
| 1. A MIX BAL | ST1 & ST2 | Changes the level of the indicator by pressing \uparrow or \downarrow to adjust the volume balance between audio ST1 & ST2 |
| 2. SEARCH | *C MEMORY OFF | Select C MEMORY normally to activate cassette memory function Select OFF only if recorded picture is searched w/out cassette memory function |

Camcorder Controls on the Back of the Sony VX-1000

- A. Camera Power Switch
- B. VTR Mode Switch
- C. Custom Hold Selector
- D. Auto Lock Release
- E. Auto Lock Selector
- F. AE Control Dial
- G. Program AE / Iris
Priority Button
- H. Shutter Priority Button
- I. White Balance Button
- J. Rec Level Button



- A. Manual Focus Ring
- B. VTR Mode Switch
- C. Auto / Manual
Focus Selector
- D. Exposure Button
- E. Exposure Control
Dial
- F. Fader Button
- G. Auto Focus Button



Glossary

CCD:

Stands for Charged Couple Device. It is the imaging device made of light sensing pixels, which are used in the camera to capture images for video. Higher pixel counts usually mean better image and detail quality.

White Balance:

Automatic on all models, this establishes the tint, or hue, of the picture by adjusting sensitivity to red and green light. After it does this, white objects will appear white.

Pixels:

The elements that make up a display or imager. The larger the number of pixels, the greater the detail and clarity of the display or the image.

Zoom:

16x or 18x allows for zooming in on subjects or pull back for wide shots - Precision 64x or 72x DigitalZoom uses a Hyper-Precision CCD to maintain excellent image detail.

Lithium-Ion:

Type of rechargeable battery system that will not develop a memory, and can be recharged at any time.

Shutter Speed:

The shutter speed is the speed at which the camera captures the image. The shutter ranges from 1/60 - 1/4000.

Note: