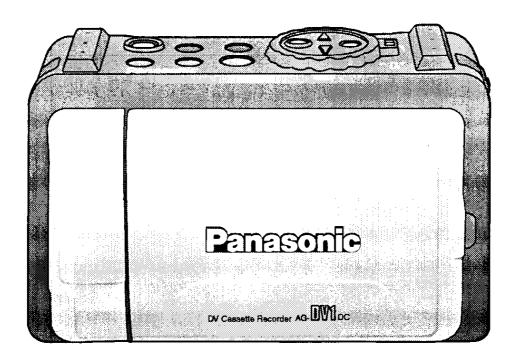
EXHIBIT # : \_\_6 FCC ID : ACJ927144L OUR REF. : MKES02-F010 MODEL NO. : AG-DV1DCP

## Operating Instructions

(Tentative)

# **Panasonic**®

miniDV Cassette Recorder
Operating Instructions
Model No. AG-DV1DCP





Before attempting to connect, operate or adjust this product, please read these instructions thoroughly.

# Things You Should Know

#### Thank you for choosing Panasonic!

You have purchased one of the most sophisticated and reliable products on the market today. Used properly, we're sure it will bring you and your family years of enjoyment. Please take time to fill in the information below. The serial number is on the tag located on the underside of your unit. Be sure to **retain this manual** as your convenient unit information source.

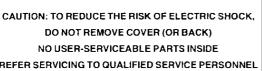
Date of Purchase	
Dealer Purchased From	
Dealer Address	
Dealer Phone No.	
Model No.	
Serial No.	
-	

### Safety Precautions

# WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

Your In unit is designed to record and play back in Standard Play (SP) mode and Long (LP) mode. It is recommended that only cassette tapes that have been tested and inspected for use in VCR machines with the In mark be used.







This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

The above markings are located on the appliance bottom cover.

**FCC Warning:** Any unauthorized changes or modifications to this equipment would void the user's authority to operate.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with Part 15 and part 18 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when operated in a residential environment.

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, use the equipment in another location and/or utilize an electrical outlet different from that used by the receiver.

If necessary, consult the dealer or an experienced radio/TV technician for help. You may find the booklet, 'Something About Interference' available from FCC local regional offices helpful.

This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45-30 MHz.

CAUTION: TO PREVENT FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

WARNING: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.

# **Before Using**

### **Accessories**

1 pc. AC Adaptor (DE-852D) with AC Cable and DC Cable



1 pc. Battery Pack (CGR-D08/CGR-D08R)



1 pc. A/V Cable (LSJA0280)

1 pc. SCREW u (LSYC0240)



i.LINK is a trademark.

### Record Speed/Playback Time

Use only those tapes having the Minipy logo indicating the 6.35 mm digital standard.

Record Speed/ Cassette type Playback time		
142.1	SP	HP
AY-DVM30EA	30 minutes	45 minutes
AY-DVM60EA	60 minutes	90 minutes
AY-DVM80EA	80 minutes	120 minutes

### **Erase Protection**

Cassettes have a sliding record tab to ensure recordings are not accidentally erased.

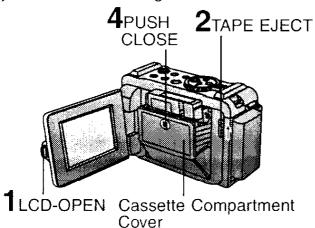
To prevent accidental erasure: Slide the tab to the left (open).

record tab

2 To record again: Slide the tab to the right (close).

## Easy Cassette Eject/Insertion

• If this unit is connected to a power source, the cassette can be inserted and ejected without turning this unit on.



Before you begin

 Connect this unit to a power source. (pp. 9, 10)

Press LCD-OPEN to unlock the LCD monitor, and swing it fully open.

Slide TAPE EJECT to open the Cassette Compartment Cover.

Insert a cassette record tab up, window side facing out.

**Press PUSH CLOSE** to close the Cassette Compartment Cover.

• To remove the cassette...

Slide TAPE EJECT to open the Cassette
Compartment Cover and pull the cassette
tape straight out.

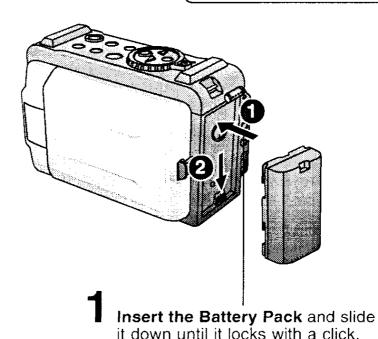
#### Note

When inserting the cassette, make sure it is facing in the right direction and then
push it in completely.

## **Insert the Battery Pack**

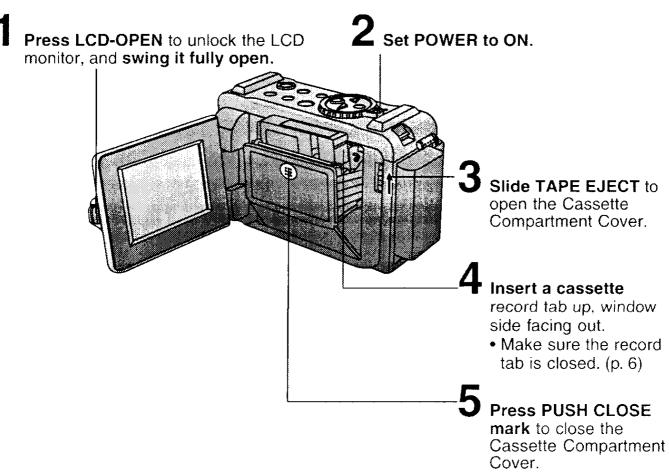
### Before you begin

• Charge the Battery. (p. 9)

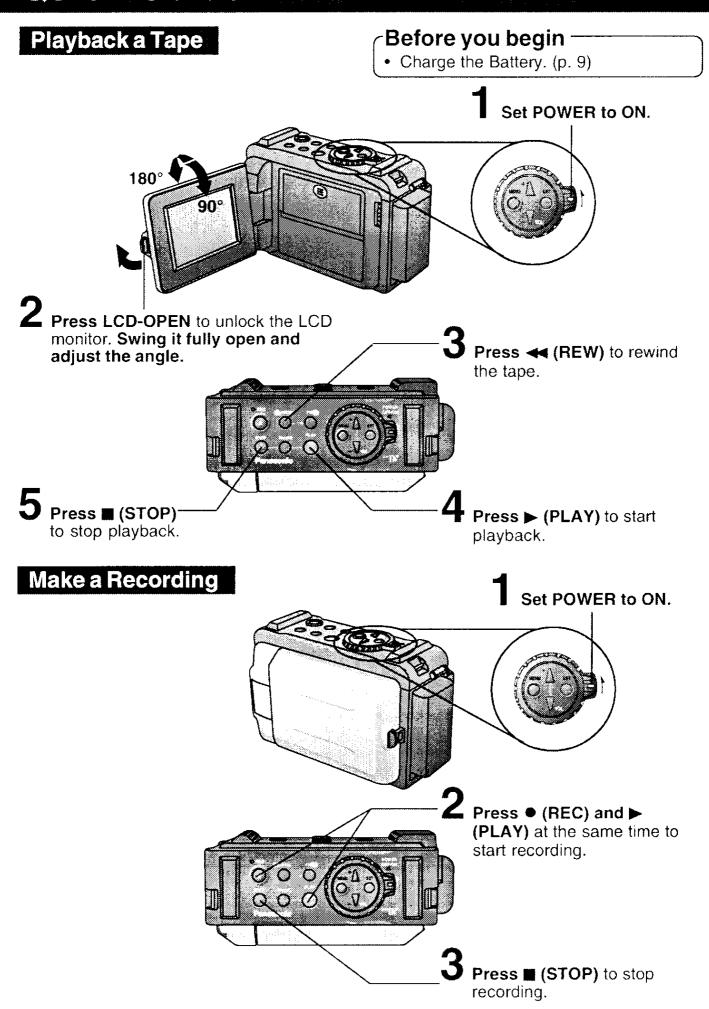


### **Insert Cassette**

This unit is equipped with the Easy Cassette Eject System so it is easy to insert or remove tapes, even when on a tripod. (p. 6)

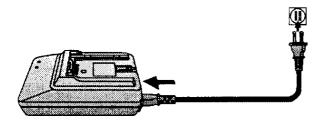


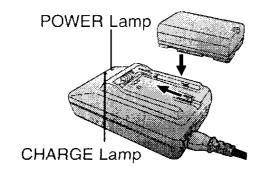
# **Quick Guide**



# **Supplying Power**

# Charge the Battery Pack on the AC Adaptor





- Connect and plug in the Power Cord as shown.
  - POWER Lamp will light.
  - Remove the DC Cable, if attached, from the adaptor.

# 2 Attach the Battery as shown to charge.

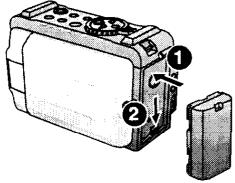
- CHARGE Lamp lights up. It goes out when charging is complete (approx. 1 hour). Expect approx. 1 hour 30 minutes of operation (EVF usage) when fully charged.
- Remove the Battery.
  Slide the Battery out and then lift up.

#### Note

#### About the Flashing of the CHARGE Lamp

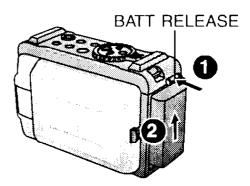
- Charge the Battery within an ambient temperature range of 10 °C (50 °F) and 30 °C (86 °F).
- If charging is done in extreme low or high temperatures, Battery charge time increases. CHARGE Lamp flashes when...
  - The Battery is being charged, but charging is taking longer than normal.
  - Charging is not possible. Remove the Battery once, wait a short time, then re-attach it for charging.

## **Insert the Battery Pack**



Insert the Battery Pack and slide it down until it locks with a click.

### Remove the Battery Pack



Remove the Battery Pack and slide the Battery upward while pushing the BATT RELEASE.

# Supplying Power

### **Battery Care**

#### Caution:

- Charge only with specified charger.
- Charge the Battery within an ambient temperature range of 10 °C (50 °F) and 30 °C (86 °F).
- The Battery may be warm after charging or just after use. This is normal.
- Do not use an insufficiently charged or worn out Battery.
- If charging is done in extreme low or high temperatures, Battery charge time increases.

#### Safety precautions:

- Do not place the Battery near, or dispose of in fire.
- Do not directly connect (short circuit) the positive
   (+) and negative (-) terminals.
- Never attempt to disassemble or reassemble the Battery.

#### To avoid damage to the Battery:

- Do not drop or jar the Battery.
- Use the Battery with specified models only.
- If the Battery is used in extremely high temperatures, a safety device will automatically prevent operation.

#### To ensure longer battery life:

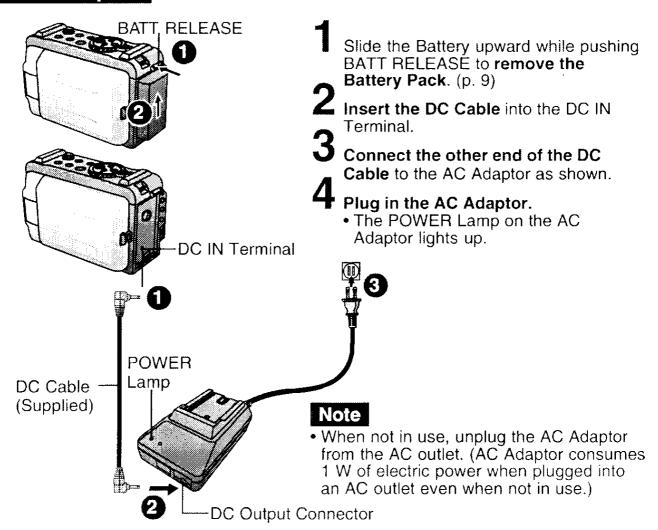
- While not in use, remove Battery from the Palmcorder and AC Adaptor and store in a cool, dark, dry place. If you leave the Battery in the Palmcorder or on the AC Adaptor, the Battery will no longer be rechargeable.
- Keep the Battery terminals clean.

#### ATTENTION: -



A lithium ion/polymer battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

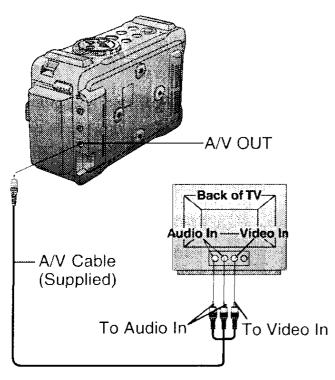
### **Use AC Adaptor**



# **Special Effect Features**

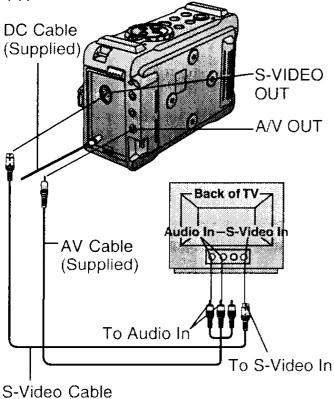
# View Recording/Playback on

[TV with AUDIO/VIDEO IN Jacks]



#### [ TV with S-VIDEO IN Jacks ]

For best Chrominance and Luminance, use the S-Video connection if available on your TV.



(Not supplied)

Before you begin

 When using S-VIDEO Connector, insert the DC Cable into the DC IN Terminal. (p. 10)

Set POWER to ON.

To view what this unit is recording or to playback a tape on your TV.

Press MENU to display the MAIN MENU screen.

> To view what this unit is recording or to playback a tape on your TV.

- Press +/- to select REC MODE, then press SET to display the REC MODE menu screen.
- Press +/- to select AV JACK in the REC MODE menu. (Menu OSD: p. 28)
- **5** Press SET to select OUT/PHONES.
  - Press MENU twice to exit.
  - "DV IN" will appear on the screen.

### Note

- Set LINE OUT: ON in the DISPLAY. menu to display the OSD screen on your TV monitor.
- Turn your TV ON and set it to LINE INPUT or S-VIDEO.

Check your TV operating instructions for further information.

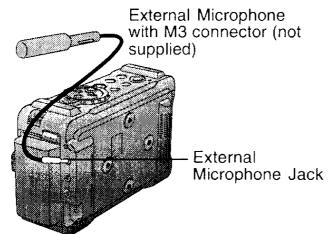
- Start playback or begin a recording.
- Make sure this unit and TV are turned off while connecting.
- Please connect the A/V Cable securely.

# **Recording Features**

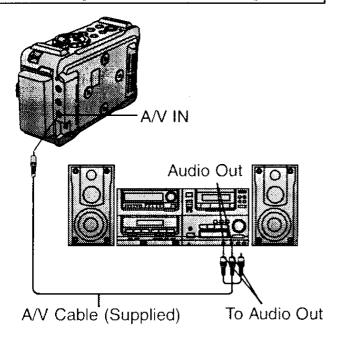
## Audio Dubbing using the External Microphone or External Recording Source

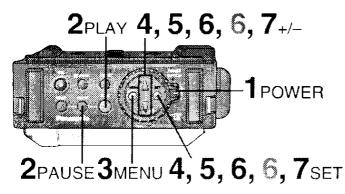
The original sound can be replaced with new sound using an external microphone or external recording source.

When using an External Microphone



When using an External Recording Source





### Before you begin

- Connect the external Microphone (if used).
- Connect this unit and the external recording source using the A/V Cable. (if used).
- Turn on this unit.
- Insert a pre-recorded tape to be dubbed.

The AUDIO REC setting in REC MODE menu should be as follows:

12 bit	The original sound is recorded on ST (Stereo) 1, and the new sound will be recorded on ST (Stereo) 2.	
16 bit	The original sound is replaced with the new sound.	

- Select 12 bit if you do not want the original sound to be completely replaced during an audio dub.
- If you dub over a tape which has both 12 bit and 16 bit audio recordings on it, keep in mind that the original 16 bit audio portion will be completely replaced.
- Set POWER to ON.
- Press ➤ (PLAY). Then press II (PAUSE) where you want dubbing to begin.
- **3** Press MENU to display the MAIN MENU screen.
- 4 Press +/- to select REC MODE, then press SET to display the REC MODE menu screen.
- **5** Press +/- to select AV JACK, then press SET to select IN.

When using an External Microphone

Press +/- to select AUDIO SEL, and then press SET to select MIC.
Go to step 7 on page 20.

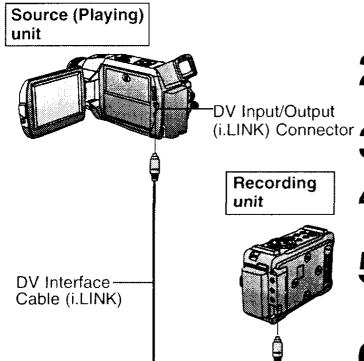
When using an External Recording Source

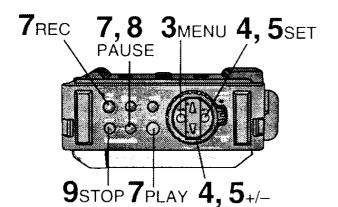
Press +/- to select AUDIO SEL, and then press SET to select LINE.
• Go to step 7 on page 20.

# **Recording Features**

# Copying from Digital Equipment (dubbing)

High quality digital-to-digital copying can be accomplished if this unit and a Palmcorder incorporate the DV Input/ Output (i.LINK) Connector (DV Interface cable (i.LINK) is not supplied).





Before you begin

 Connect this unit and a source (Playing) unit to their power sources.

 Connect this unit and a source (Playing) unit using the DV Interface cable (i.LINK) (4-pin to 4-pin).

• Turn ON both units.

Insert a pre-recorded tape into the source (playing) unit, and set POWER to VCR.

2 Insert a blank tape with the record tab closed into the target (recording) unit and set POWER to ON.

**Press MENU** to display MAIN MENU screen.

4 Press +/- to select REC MODE, then press SET to display the REC MODE menu screen.

Press +/- to select AV JACK, then press SET to set to OUT/PHONES.
"DV IN" is displayed on the LCD monitor. (p. 31)

Press ➤ (PLAY) on the source (Playing) unit. When the tape reaches the point from which you want to start dubbing, press II (PAUSE).

Hold down REC and press ► (PLAY) on the target (recording) unit.

Press II (PAUSE) to pause the tape at the starting point of the dub.

Simultaneously, press II (PAUSE) on both units to begin dubbing.

**9** Press ■ (STOP) on the recording unit, and then press ■ (STOP) on the playing unit to end dubbing.

#### **CAUTION: -**

Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

# **Specifications**

**Power Source:** miniDV Recorder Cassette: 7.2 V DC (Battery)

7.9 V DC (AC Adaptor)

AC Adaptor: 110/120/220/240 V AC, 50/60 Hz

Battery: Lithium-Ion Type DC 7.2 V

Power Consumption: miniDV Recorder Cassette

:7.2 V/7.9 V DC 4.5 W

AC Adaptor: 18 W

1 W (when not in use.)

**Digital Interface** i.LINK (IEEE1394)

Video Signal: EIA Standard (525 lines, 60 fields) NTSC color signal

Video Recording System: 2 rotary heads, helical scanning system

Audio: 12 bit (32 kHz) 4 tracks

16 bit (48 kHz) 2 tracks

**LCD Monitor:** 88.9 mm (3.5 inch) Liquid Crystal Display

Operating Temperature: 32 °F~104 °F (0 °C~40 °C)

Operating Humidity:  $10 \% \sim 75 \%$ 

Weight: miniDV Recording Cassette: 0.55 kg

1.21 lbs.

AC Adaptor : 0.16 kg

0.35 lbs.

**Dimensions:** miniDV Recording Cassette:

142 (W) x 94.5 (H) x 69.5 (D) mm

5-9/16 (W) x 3-12/16 (H) x 2-12/16 (D) inch

AC Adaptor:

70 (W) x 45 (H) x 115 (D) mm

2-3/4 (W) x 1-3/4 (H) x 4-1/2 (D) inch

Weight and dimensions shown are approximate.

Designs and specifications are subject to change without notice.

### **Notice**

This product has a fluorescent lamp that contains a small amount of mercury. It also contains lead in some components. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: <a href="http://www.eiae.org.">http://www.eiae.org.</a>>