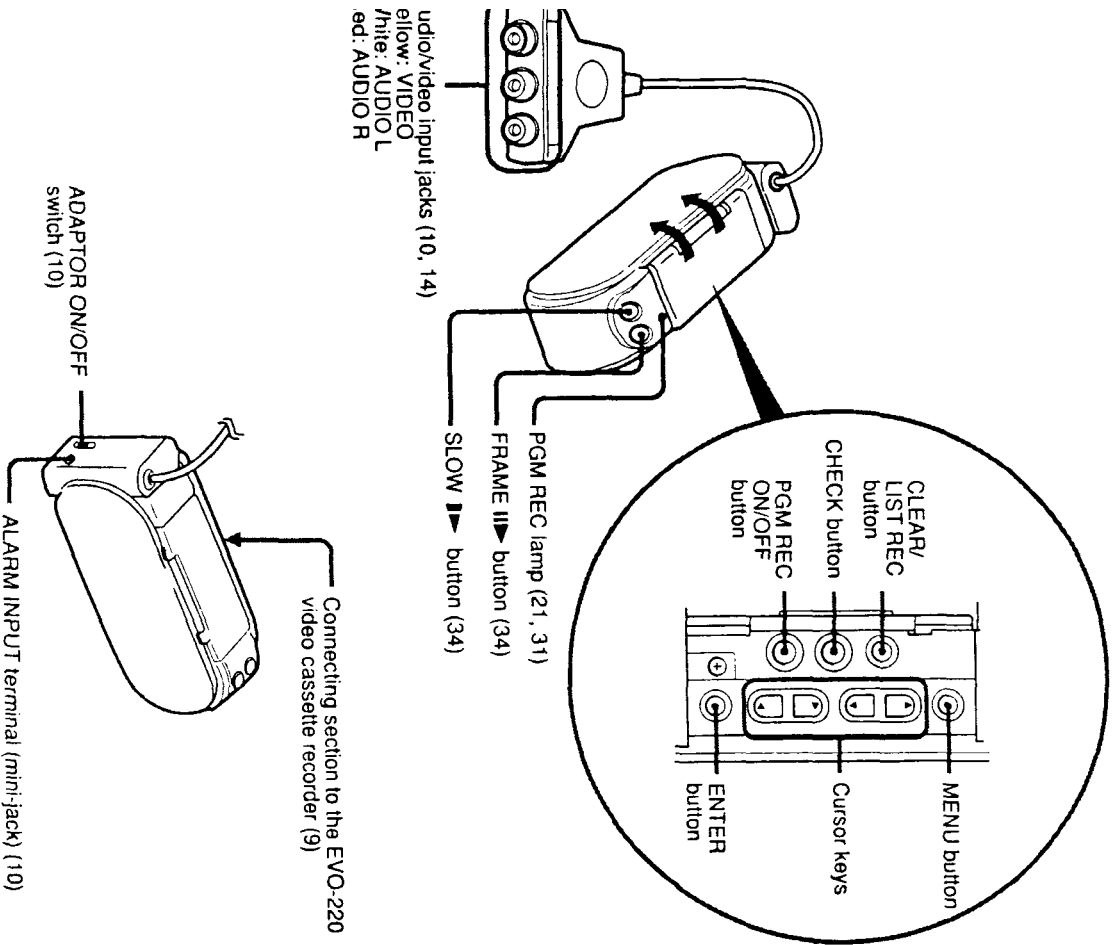


Location of Parts and Controls

details, refer to the pages indicated in parentheses.

Open the lid to use the buttons inside and be sure to close it after using the buttons.



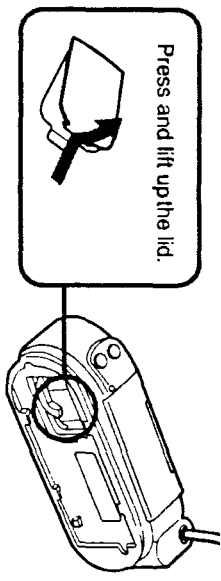
Getting started

Power Sources

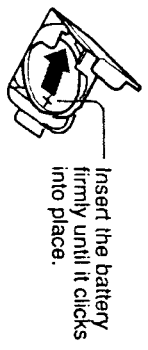
When this adaptor is connected to the EVO-220 video cassette recorder, the power for this adaptor supplied from the EVO-220. The only other power needed by this adaptor is a lithium battery to power the clock and keep the settings and the alarm list in memory, even when the host power to the EVO-220 is interrupted or this adaptor is disconnected from the EVO-220.

Installing a Lithium Battery

- 1 Open the lid of the lithium battery compartment.



- 2 Install the supplied CR2032 lithium battery with the + side facing out.



- 3 Close the lid.

To remove the lithium battery

Push the battery forward and remove it as illustrated.



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Preliminary

Overview of the PGV-220

The PGV-220 is an alarm recording adaptor designed to be used with the EVO-220 video cassette recorder.

By connecting the EVO-220 video cassette recorder and a camera to this adaptor, you can perform recordings, "date/time superimposition," and so on.

Features

- Time/date superimposition
- Program recording
- ALARM mode:
 - This is the most basic feature. The EVO-220 starts recording automatically when an alarm signal input to this adaptor.
 - In addition to ALARM mode, this adaptor has the following three program recording modes:
 - CONTI REC (Continuous Recording) mode: keeps recording even if you press (stop) or PAUSE on the EVO-220 by mistake.
 - QUASI TLV (Quasi-Time Lapse VCR) mode: records for a specified period of time at specified intervals.
 - TIMER mode: starts and stops recording at the time you set and the recording is performed in ALARM, CONT or QUASI TLV mode.
- Back up function to resume the former status after the recovery of a power failure
- Alarm list to show you the time and cause of each alarm recording with its alarm number
- Automatic repeat function to rewind the tape when the tape reaches its end
- CHECK screen to confirm the settings
- Built-in microphone amplifier
- Slow motion and frame-by-frame playback

Menu Screen

This adaptor is equipped with a menu screen function. You can perform most of the operations on menu screen displayed on a monitor connected to the EVO-220.

Menu item	Setting purpose	F
ALARM LIST	To see the alarm list	
PROGRAM REC SET	To select a program recording mode (ALARM, CONTI REC, QUASI TLV, or TIMER) and set the conditions of the alarm recording	
QUASI TLV SET	To set the duration and interval of the QUASI TLV recording	
TIMER REC SET	To preset the TIMER settings	
REC MODE SET	To select the audio input level and the tape speed	
CLOCK SET	To set the date, the time, and the clock display position	

SONY.

3-757-634-21(1)

Alarm Recording Adaptor

Model:

PGV-220

Operation Manual

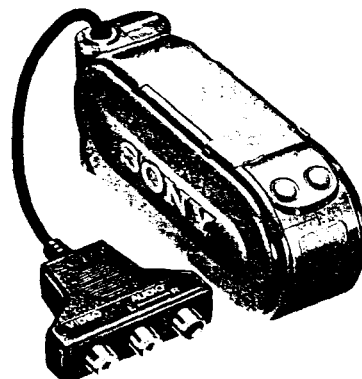
(Page 2 to 36)

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Mode d'emploi

(Page 38 à couverture dos)

Avant la mise en service de l'appareil, prière de lire attentivement ce mode d'emploi que l'on conservera pour toute référence ultérieure.



WARNING

**prevent fire or shock hazard,
not expose the unit to rain
moisture.**

detailed safety precautions, see the leaflet
"IMPORTANT SAFEGUARDS."

Caution

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For the customer in Canada

This apparatus complies with the Class B limits for radio noise emissions set out in Radio Interference Regulations.

User's record

Model and serial numbers are located on the right side. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. PGV 220

Serial No.

Precautions**Operation**

- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Avoid rough handling or mechanical shock to the unit.
- Do not wrap up the unit and operate it because heat may build up internally.
- Avoid using and storing the unit in the following locations:
 - susceptible to vibration
 - exposed to strong magnetic fields
 - near TV or radio transmitters where strong radio waves are generated
 - on the sand
 - near heat sources such as radiators or air ducts
 - subject to direct sunlight or excessive dust
- Do not leave the unit in a car or in a trunk.

Care

- Clean the unit body with a dry, soft cloth, or a soft cloth lightly moistened with a mild detergent. Do not use any type of solvent which may damage the finish.

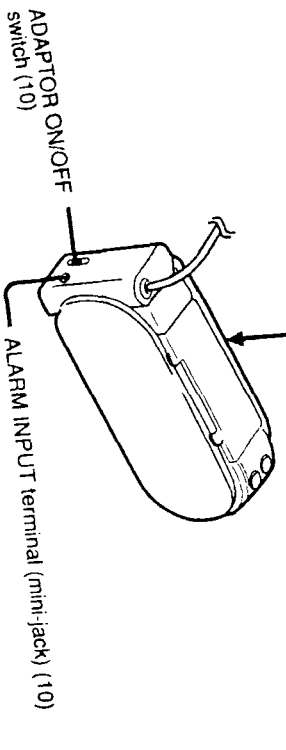
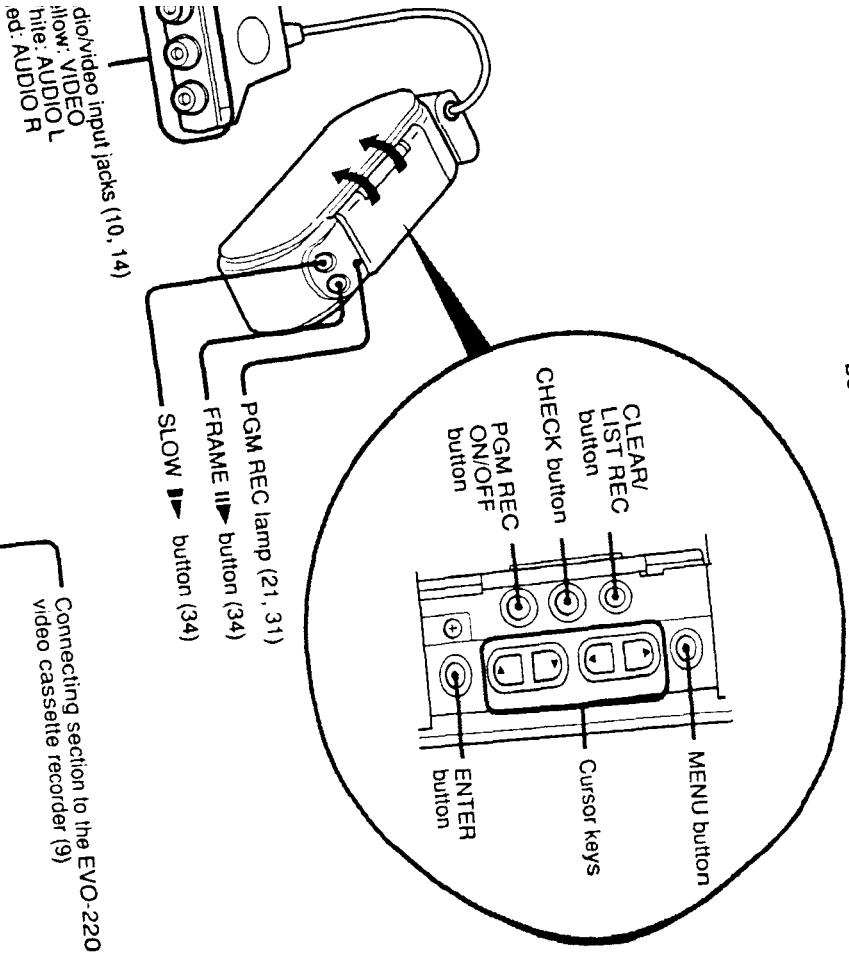
Maintenance

- The built-in clock of the unit may not work correctly due to temperature change, etc. Check the clock occasionally and set the time again if necessary.
- About one year of normal operation can be expected with the supplied lithium battery. We recommend replacing the battery before it is completely run down.
- Take care of the EVO-220 video cassette recorder while referring to the operation manual supplied with it.

of Parts and Controls

the pages indicated in parentheses.

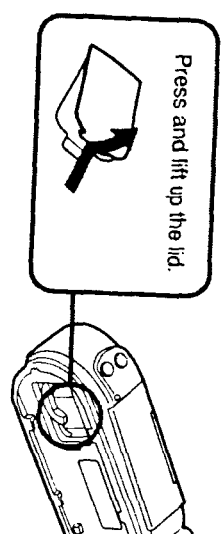
Open the lid to use the buttons inside and be sure to close it after using the buttons.



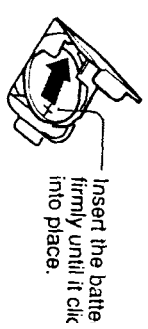
When this adaptor is connected to the EVO-220 video cassette recorder, the power for this is supplied from the EVO-220. The only other power needed by this adaptor is a lithium battery clock and keep the settings and the alarm list in memory, even when the host power to the E interrupted or this adaptor is disconnected from the EVO-220.

Installing a Lithium Battery

- 1 Open the lid of the lithium battery compartment.



- 2 Install the supplied CR2032 lithium battery with the + side facing out.



- 3 Close the lid.

To remove the lithium battery
Push the battery forward and remove it as illustrated.



Power Sources

Lithium battery life

Approximately one year is expected in normal operation. If the lithium battery becomes weak, the CLOCK SET menu appears when you turn on the EVO-220 after a recovery of a power failure, even though you have already set the clock. In this case, replace the battery with a Sony CR2032 lithium battery. Use of another battery may present a risk of fire or explosion. After replacing the battery, set the clock again.

Cautions

- Keep the lithium battery out of the reach of children. Should the battery be swallowed, consult a doctor immediately.
- Before use, wipe the battery with a dry cloth to assure a good contact.
- Be sure to observe the correct polarity when installing the battery.
- Do not hold the battery with metallic tweezers, as that may cause a short-circuit.
- Do not break up the battery or throw it into a fire because it may explode. Carefully dispose of the used batteries.

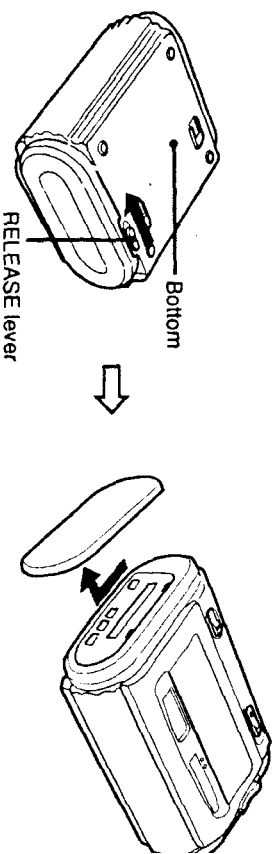
Warning

Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fires.

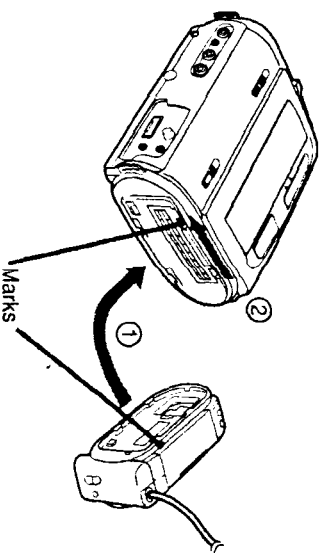
Connections

Attaching this Adaptor to the EVO-220 Video Cassette Recorder

- 1 Remove the left side cover of the EVO-220 while sliding the RELEASE lever on the bottom in the direction of the arrow (→).

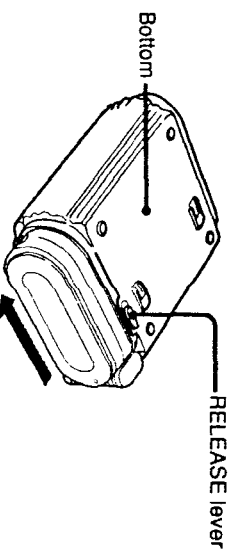


- 2 Align the marks of the connecting sections of this adaptor and the EVO-220 as illustrated then slide this adaptor backward until it clicks (②).



To remove this adaptor from the EVO-220 video cassette recorder

Pull this adaptor forward while sliding the RELEASE lever on the EVO-220 in the direction of the arrow (←).



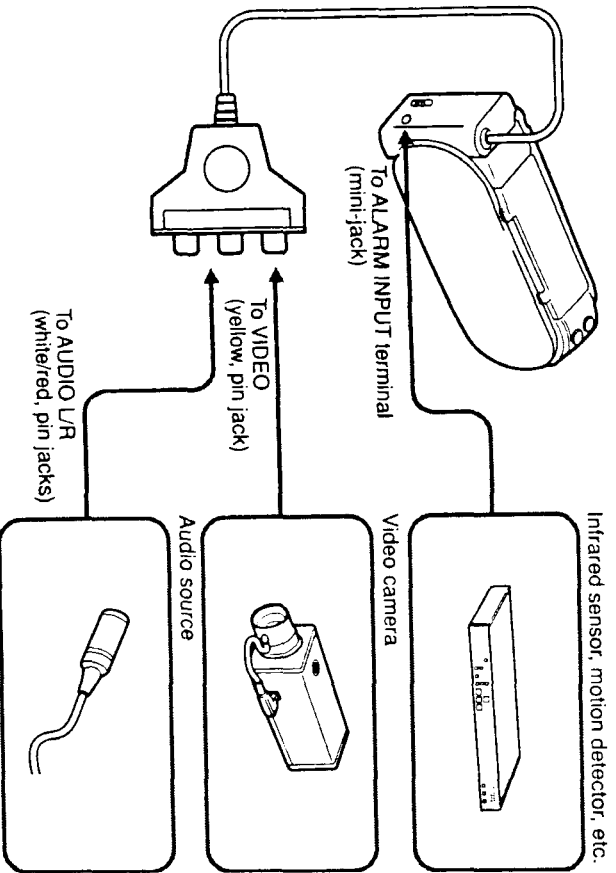
Note

When this adaptor is not connected to the EVO-220, be sure to attach the left side cover to the EVO-220 to protect the exposed connecting sections.

Connections

Connecting Other Equipment

You can connect a video camera and an audio source or a microphone to this adaptor. Since this adaptor provides a microphone amplifier, you do not have to use an external microphone amplifier. You can also connect an external alarm sensor (an infrared sensor, a motion detector, etc.) to this adaptor input alarm signals which are considered as triggers for alarm recordings.



Completing connections

Slide the ADAPTOR ON/OFF switch on the rear of this adaptor to ON. (See page 6 for the location of the switch.)
 With this switch set to ON, the clock and the alarm number are superimposed on the screen, the audio/visual input jacks are active, and you can use all other functions of this adaptor.
 The ADAPTOR ON/OFF switch is set to OFF, this adaptor does not work even if connected to the EVO-220. Set the switch to OFF when you want to use the EVO-220 alone with this adaptor connected.

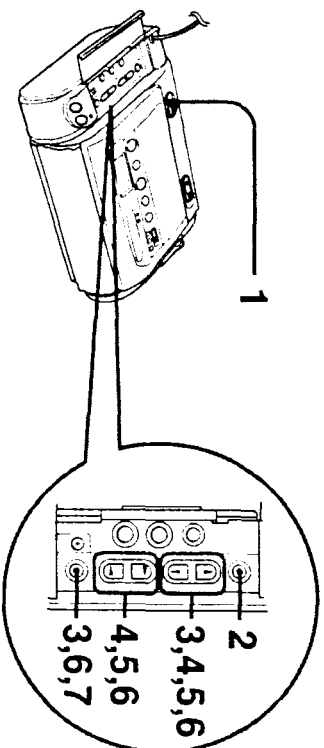
Setting the Clock and the Clock Display Position

You can set the clock and the clock display position so that the date and time are superimposed on the monitor screen connected to the EVO-220.
 You can select the time indication between 12-hour and 24-hour formats.
 Moreover, you can also select the date format from among Month/Day/Year (factory setting), Day/Month/Year, and Year/Month/Day.

Before setting

Check the following points:

- Is the lithium battery installed correctly? (See page 7.)
- Is this adaptor connected to the EVO-220 correctly? (See page 9.)
- Is the ADAPTOR ON/OFF switch set to ON?
- Is a monitor connected to the EVO-220 correctly?



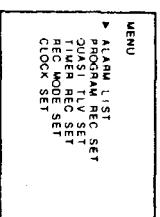
Example: Set to 1:15PM, July 4, 1993

- 1 Slide the POWER switch of the EVO-220 in the direction of the arrow.

The POWER lamp of the EVO-220 lights up.
 This adaptor turns on simultaneously.
 (If this is the first time you turn on this adaptor after connecting it to the EVO-220, the CLOCK SET menu appears automatically. Go to step 4.)

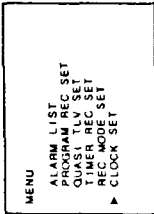
- 2 Press MENU.

The MENU screen appears on the monitor connected to the EVO-220.

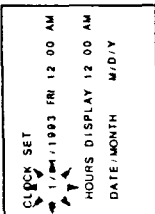


Setting the Clock and the Clock Display Position

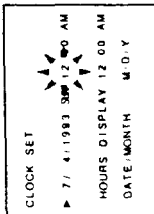
Press **▲** or **▼** inside the lid to move the cursor (▶) to **CLOCK SET**, and press **ENTER**.



Set the month, day, and year.
Press **▶** or **◀** to make the item to be set flash, and press **▲** or **▼** until the desired number appears.
• The day of the week is automatically displayed.
• This adaptor incorporates the calendar until the year 2008.

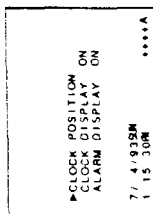


Set the hour and minute.
Press **▶** or **◀** to make the item to be set flash, and press **▲** or **▼** until the desired number appears.
• Be sure to set AM and PM correctly.

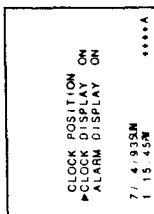


Press ENTER.
The clock starts and the sub-menu screen appears.

Set the following items.
CLOCK POSITION
Each time you press **▶** or **◀**, the position where the clock is displayed changes as follows:
Lower left ↔ Upper left ↔ Upper, all in one line
↓ ↑
Lower, all in one line ↔ Lower right ↔ Upper right

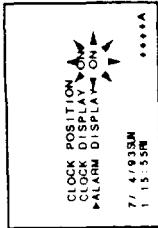


CLOCK DISPLAY
Press **▲** or **▼** to the cursor (▶) to **CLOCK DISPLAY**, and press **▶** or **◀** to select ON or OFF.
ON: The clock is displayed.
OFF: The clock is not displayed.



ALARM DISPLAY

Press **▲** or **▼** to move the cursor (▶) to **ALARM DISPLAY**, and press **▶** or **◀** to select ON or OFF.
ON: The alarm number is displayed in normal mode and while an alarm recording is being made.
OFF: The alarm number is not displayed. However, the alarm number is counted and retained in the memory.



7 Press ENTER.
The normal screen resumes.

To resume the MENU screen
Press **MENU**.

To change the indication of the clock

The built-in clock of this adaptor shows the time in 12-hour format, but you can change it to 24-hour format if you wish. In 12-hour format, 12:00AM stands for midnight and 12:00PM for noon.
In the **CLOCK SET** menu, press **▲** or **▼** to move the cursor (▶) to **HOURS DISPLAY**, and press **▶** or **◀**. Each time you press **▶** or **◀**, the clock changes between 12-hour format and 24-hour format alternately.

To change the date format

The built-in clock of this adaptor shows the date in the order of month, day, and year, but you can change it if you wish.
In the **CLOCK SET** menu, press **▲** or **▼** to move the cursor (▶) to **DATE/MONTH**, and press **▶** or **◀**. Each time you press **▶** or **◀**, the date format changes as follows:
M/D/Y (month/day/year) ↔ D/M/Y (day/month/year) ↔ Y/M/D (year/month/day)

Notes on the built-in clock

- If the lithium battery is not installed, the clock will be reset each time the host power to the EVO-220 is interrupted or you disconnect this adaptor from the EVO-220.
- The built-in clock may not work correctly due to temperature change and so on. Check the clock occasionally and set it again if necessary.

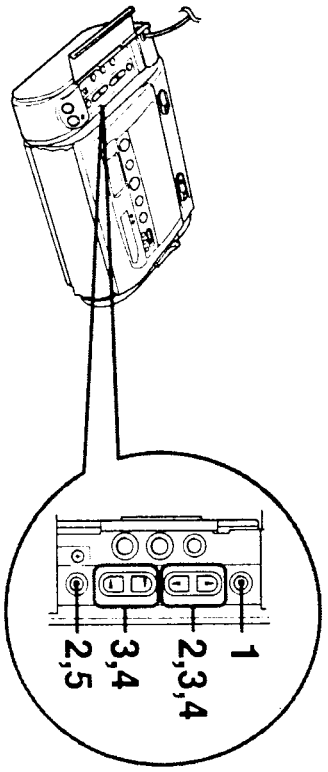
Note on the clock display position

According to the camera or video source, the clock indication may be distorted at the upper part of the screen. In this case, select the lower position for clock display.

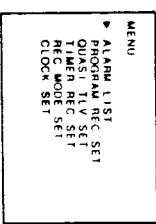
Setting the Audio Input and the Tape Speed

Switch the audio input level between LINE (line input) and MIC (microphone input), and tape program recordings between LP (long play) mode (factory setting) and SP (standard play) mode.

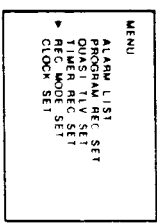
Setting the REC MODE SET menu



Press MENU.
The MENU screen appears on the monitor connected to the EVO-220.



Press ▲ or ▼ to move the cursor (▶) to REC MODE SET, and press ENTER.
The REC MODE SET menu appears.



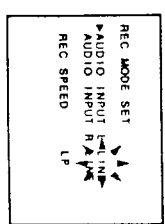
Set the input level for the left and right channels independently.

Press ▲ or ▼ to move the cursor (▶) to AUDIO INPUT L or AUDIO INPUT R, and press ▶ or ◀ to select LINE or MIC.

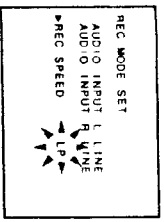
LINE: When an audio source is connected to the AUDIO L or AUDIO R jack.

MIC: When a microphone is connected to the AUDIO L or AUDIO R jack.

When you do not connect any audio source, select LINE for the input level. If you select MIC, noise may be picked up.



4 Set the tape speed for program recordings.
Press ▲ or ▼ to move the cursor (▶) to REC SPEED, and press ▶ or ◀ to select LP or SP.



5 Press ENTER.
The normal screen resumes.

To resume the MENU screen
Press MENU.

Note on the tape speed
Even if you change the tape speed with the EVO-220, the program recording is performed in the tape speed set with this adaptor. Be sure to check the tape speed with the CHECK screen (page 32) before entering the program recording mode.

Setting the Program Recording Conditions

What is the Program Recording?

When the program recording functions, the alarm recording is the most basic function. When an alarm signal is input to this adaptor, the EVO-220 starts recording automatically for a specified duration with its alarm number displayed on the monitor. This adaptor considers an alarm signal input through the ALARM IN terminal as a trigger for alarm recording. (A power failure is also considered as a trigger.) The time cause of an alarm signal is stored in the memory of this adaptor with the alarm number so that you can refer to them later on. This is called the ALARM mode.

However, while performing the program recording based on the ALARM mode, this adaptor gives you a choice of any one of the following three program recording modes:

NTI REC (Continuous Recording) mode (See page 22.)

The EVO-220 keeps recording and the buttons on the EVO-220 are locked. Therefore the recording does not stop even when you press **□** (stop) or **||** (pause) on the EVO-220 by mistake.

When an alarm signal is input in CONTI REC mode, the date/time and cause of the alarm signal is memorized in the alarm list.

ASIS TLV (QUASI-Time Lapse VCR) mode (See page 23.)

The EVO-220 records for a specified duration at a specified interval, while it is waiting for an alarm signal.

TIMER mode (See page 26.)

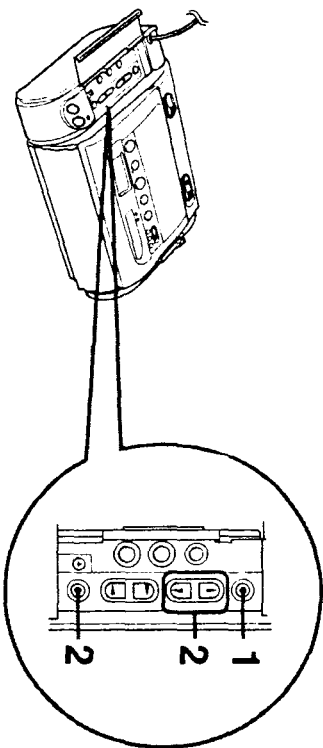
The EVO-220 performs program recording according to the preset timer programs. You can preset up to ten events over one month to this adaptor. In each event, you can set the date, the starting and ending time, and the program recording mode (ALARM, CONTI REC, or QUASI TLV). Moreover, you can perform the same program recording on every day or on a specific day of every week.

In the PROGRAM REC menu, you can select the program recording mode (ALARM, CONTI REC, QUASI TLV, or TIMER) and set the conditions for the alarm recording which are common to every program recording mode. When you select QUASI TLV or TIMER mode, you have to set additional conditions for selected mode.

After completing the settings, be sure to check whether the settings are correct or not by pressing CHECK on the CHECK screen. (See page 32.)

When the settings are correct, press PGM REC ON/OFF to enter program recording mode. (See page 31.)

Selecting the PROGRAM REC Menu



1 Press MENU.
The MENU screen appears on the monitor connected to the EVO-220.

```

MENU
▶ ALARM LIST
▶ PROGRAM REC. SET
▶ QUASI TLV SET
▶ TIMER REC. SET
▶ REC. MODE SET
▶ CLOCK SET
    
```

2 Press ▲ or ▼ to move the cursor (▶) to PROGRAM REC SET, and press ENTER.
The PROGRAM REC menu appears.

```

MENU
▶ ALARM LIST
▶ PROGRAM REC. SET
▶ QUASI TLV SET
▶ TIMER REC. SET
▶ REC. MODE SET
▶ CLOCK SET
    
```

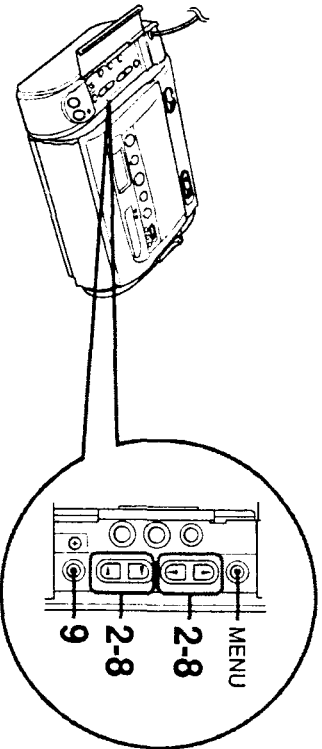
Setting of Each Item in the PROGRAM REC Menu

Menu Item	Description
PROGRAM	To select the program recording mode ALARM: See page 19. CONTI REC: See page 22. QUASI TLV: See page 23. TIMER: See page 26.

Setting the Program Recording Conditions

Menu Item	Description
DURATION	To set how long a recording should be made after receiving a trigger signal MINIMUM: The EVO-220 keeps recording as long as an alarm signal is input. 10S (10 seconds): The EVO-220 records for about 10 seconds after an alarm signal is input. 10M (10 minutes): The EVO-220 records for about 10 minutes after an alarm signal is input. TAPE END: The EVO-220 records until the tape reaches its end, once an alarm signal is input.
STAND BY	To select the stand-by status (When you select CONTI REC or QUASI TLV in PROGRAM, you cannot set this item.) QUICK START: The EVO-220 waits for an alarm signal in recording pause mode. However, if there is no alarm signal for about 5 minutes, the EVO-220 waits in stop mode. POWER SAVE: The EVO-220 turns off. When an alarm signal is input, the EVO-220 turns on and starts recording. ALARM OFF: (only when you select TIMER in PROGRAM) The EVO-220 turns off until the starting time of the TIMER setting comes. Even if an alarm signal is input, the EVO-220 ignores it and the power remains off.
RIGGER	To decide what is considered as a trigger signal INPUT: An alarm signal input from an alarm source connected to this adaptor is considered as a trigger signal. POWER OFF: A power failure is considered as a trigger signal. BOTH: Both of INPUT and POWER OFF are considered as trigger signals.
REPEAT	To decide what to do when the tape reaches its end while a program recording is made. OFF: The tape stops. ON W-ALM (on with alarm): The tape rewinds to the beginning and starts program recording again, even if an alarm recording is made. Note that this setting erases the previous alarm recordings. ON W/O-ALM (on without alarm): The tape stops when an alarm recording is made. When no alarm recording is made, the tape rewinds to the beginning and starts program recording again.
LIST LOG	To decide whether or not the date/time and cause of an alarm signal is memorized in the alarm list NO: The date/time and cause of an alarm signal are not memorized in the alarm list. YES: The date/time and cause of an alarm signal are memorized in the alarm list.
LIST REC	To decide whether or not you record the alarm list on the tape automatically. NO: The alarm list is not recorded automatically. YES: The alarm list is recorded on the tape whenever you exit the program recording mode.

Setting the ALARM Recording Mode



1 Select the PROGRAM REC menu.
 See page 17 for how to select the menu.

```

MENU
▶ ALARM LIST
▶ QUASI TLV SET
▶ REC. MODE SET
▶ TIMER REC. SET
▶ GLOCK SET
  
```

2 Set the program recording mode to ALARM.

Press ▲ or ▼ to move the cursor (▶) to PROGRAM, and press ► or ◀ to select ALARM.

```

PROGRAM REC
▶ ALARM
▶ PROGRAM
▶ DURATION
▶ MINIMUM
▶ TRIGGER
▶ INPUT
▶ REPEAT
▶ OFF
▶ LIST LOG
▶ NO
  
```

3 Set the duration of a recording.

Press ▲ or ▼ to move the cursor (▶) to DURATION, and press ► or ◀ to select MINIMUM, 10S, 20S, 30S, 1M, 2M, 3M, 5M, 10M, or TAPE END (S stands for second, and M for minute).

```

PROGRAM REC
▶ ALARM
▶ PROGRAM
▶ DURATION
▶ MINIMUM
▶ TRIGGER
▶ INPUT
▶ REPEAT
▶ OFF
▶ LIST LOG
▶ NO
  
```

4 Set STAND BY to select the stand-by status.

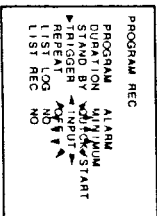
Press ▲ or ▼ to move the cursor (▶) to STAND BY, and press ► or ◀ to select QUICK START or POWER SAVE.

```

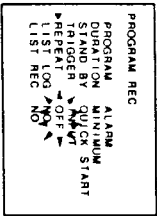
PROGRAM REC
▶ ALARM
▶ PROGRAM
▶ DURATION
▶ MINIMUM
▶ TRIGGER
▶ INPUT
▶ REPEAT
▶ OFF
▶ LIST LOG
▶ NO
  
```

Setting the Program Recording Conditions

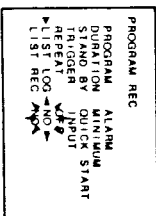
- 5 Set TRIGGER to decide what is considered as a trigger signal.**
 Press ▲ or ▼ to move the cursor (▶) to TRIGGER, and press ▶ or ◀ to select INPUT, POWER OFF, or BOTH.



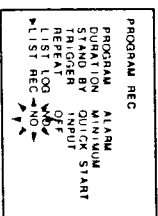
- 6 Set REPEAT to decide what to do when the tape reaches its end during program recording.**
 Press ▲ or ▼ to move the cursor (▶) to REPEAT, and press ▶ or ◀ to select OFF, ON W-ALM, or ON W/O-ALM.



- 7 Set LIST LOG to decide whether or not the date/time and cause of an alarm signal is memorized in the alarm list.**
 Press ▲ or ▼ to move the cursor (▶) to LIST LOG, and press ▶ or ◀ to select NO or YES.



- 8 Set LIST REC to decide whether or not you record the alarm list when exiting program recording mode.**
 Press ▲ or ▼ to move the cursor (▶) to LIST REC, and press ▶ or ◀ to select NO or YES.



- 9 Press ENTER.**
 The normal screen resumes.

To resume the MENU screen
 Press MENU.

Note on the automatic repeat function
 When you select ON W-ALM in REPEAT, this setting may erase the previous alarm recordings.

Note on the length of alarm signals
 When you select INPUT or BOTH in TRIGGER, alarm signals less than 34 mS (in QUICK START stand-by) or 170 mS (in POWER SAVE stand-by) are not detected.

Note on the recording timing
 When an alarm signal is input, the exact time of the alarm signal (or the power failure) is memorized in the alarm list. However, the actual recording starts a little later to hook up the EVO-220 for recording. Under standard conditions, when you select QUICK START, it takes about 2 seconds (in recording mode) or 5 seconds (in stop mode) to start recording.
 When you select POWER SAVE, it takes about 5 seconds to start recording.

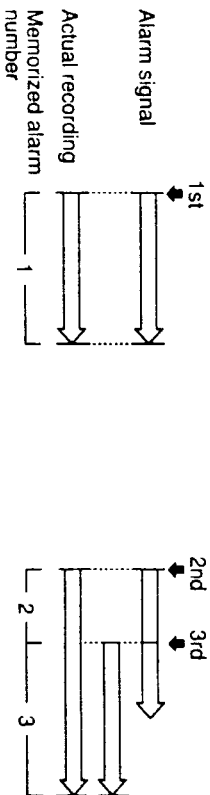
Notes on the ALARM DURATION

- When you select MINIMUM and the alarm signal is less than 5 second, the recording is made for second.
- The values of the DURATION stand for the approximate length of the recording when an alarm signal is input in recording pause mode of QUICK START stand-by. Therefore, the values may differ according to the stand-by status, environment, etc.

When frequent power failures are expected

The recording cue by a power failure may erase the previous recording slightly. We recommend: the DURATION longer than 20 seconds.

When another alarm signal is input while an alarm recording is being made
 The recording is prolonged for the duration of the alarm signal that was input later.



When an alarm signal is input while the tape is rewinding (when REPEAT is set to ON W-ALM or W/O-ALM in step 6)
 The date/time and cause of the alarm signal is memorized in the alarm list with its alarm number. 1 tape rewinds to the beginning within the alarm recording duration, the EVO-220 records for the recording duration.

When an alarm signal is input in emergency mode

- This adaptor enters emergency mode with the PGM REC lamp flashing rapidly when:
- the tape reaches its end with OFF selected in REPEAT. In this case, "TAPE END" is displayed on monitor. You can exit emergency mode by pressing PGM REC ON/OFF.
 - moisture condenses inside the EVO-220.
 - this adaptor malfunctions.

Even in these cases, the date/time and cause of the alarm signal is memorized in the alarm list, but are following limitations:

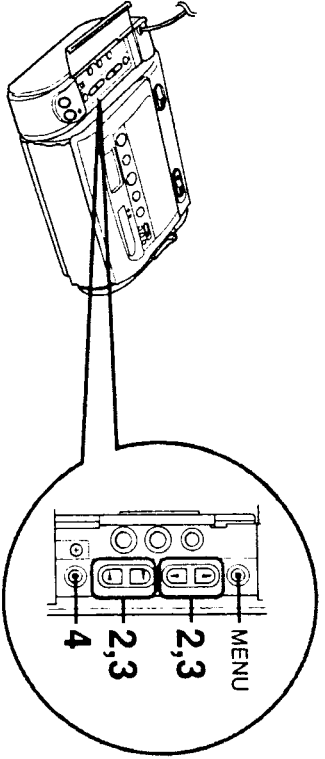
- This adaptor accepts alarm signals only from the ALARM INPUT terminal. An alarm signal cause power failure is not memorized.
- When the EVO-220 is turned off, the date/time and cause of only the first alarm signal is memorized. The EVO-220 turns on.
- This function does not work during a power failure.

Note on the memory of this adaptor

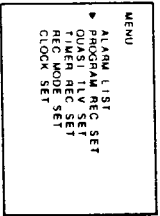
When you use this adaptor for a long time with YES selected in LIST LOG, the usable life of the memory will be over so the alarm list may not accurately reflect all the alarm occurrences. In this case, consult your nearest Sony service facility.

Setting the Program Recording Conditions

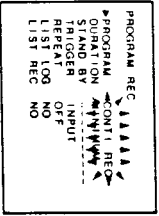
Setting the CONTI REC (Continuous Recording) Mode



- 1 Select the PROGRAM REC menu.**
See page 17 for how to select the menu.



- 2 Set the program recording mode to CONTI REC.**
Press ▲ or ▼ to move the cursor (▶) to PROGRAM, and press ▶ or ◀ to select CONTI REC.
"-----" appears in the STAND BY column.



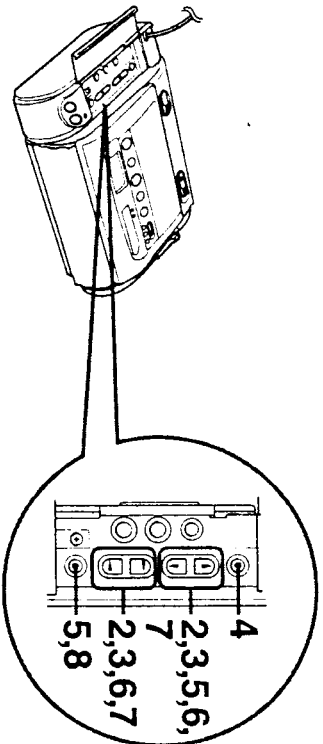
- 3 Check other items.**
Change the settings if necessary. (See pages 19 and 20.)
- 4 Press ENTER.**
The normal screen resumes.

To resume the MENU screen
Press MENU.

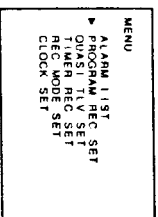
Note on the stand-by status
You cannot set STAND BY in the CONTI REC mode.

Setting the QUASI TLV Mode

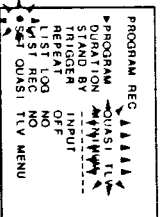
After setting the QUASI TLV mode in the PROGRAM REC menu, you must set the duration and in the QUASI TIME LAPSE SET menu.



- 1 Select the PROGRAM REC menu.**
See page 17 for how to select the menu.

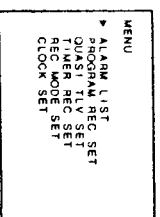


- 2 Set the program recording mode to QUASI TLV.**
Press ▲ or ▼ to move the cursor (▶) to PROGRAM, and press ▶ or ◀ to select QUASI TLV. The message "SET QUASI TLV MENU" appears at the bottom of the screen.
"-----" appears in the STAND BY column.



- 3 Check other items.**
Change the settings if necessary. (See pages 19 and 20.)

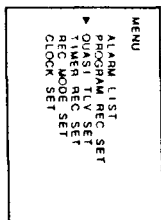
- 4 Press MENU.**
The MENU screen resumes.



Setting the Program Recording Conditions

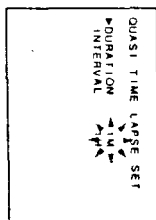
5 Press ▲ or ▼ to move the cursor (▶) to QUASI TLV SET, and press ENTER.

The QUASI TIME LAPSE SET menu appears.



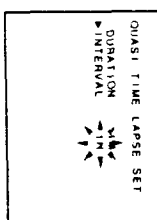
6 Set the duration of a QUASI TLV recording.

Press ▲ or ▼ to move the cursor (▶) to DURATION, and press ▶ or ◀ to select 1M, 3M, 5M, or 10M (M stands for minute).



7 Set the interval of the recordings.

Press ▲ or ▼ to move the cursor (▶) to INTERVAL, and press ▶ or ◀ to select 1H, 30M, or 15M (H stands for hour, and M for minute).



8 Press ENTER.

The normal screen resumes.

To resume the MENU screen
Press MENU.

QUASI TLV recording duration and interval

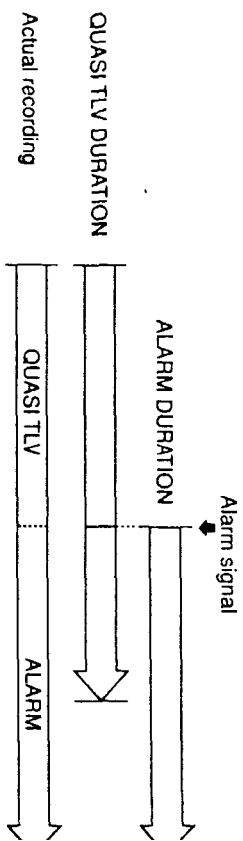
When you select 1M of DURATION in step 6 and 1H of INTERVAL in step 7, the EVO-220 records for 1 minute at the interval of about 1 hour.

Note that the interval period is approximate.

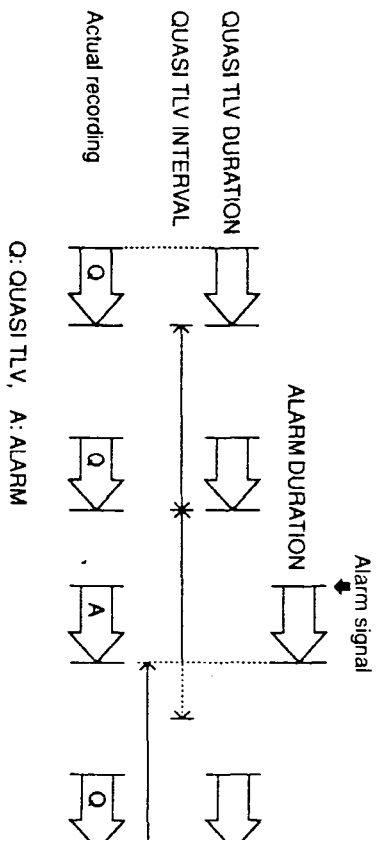
Note on the stand-by status
You cannot set STAND BY in the QUASI TLV mode, since it is automatically set to QUICK START.

When an alarm signal is input in QUASI TLV mode
The alarm signal has the priority and the ALARM recording settings override the QUASI TLV recording settings.

When an alarm signal is input while the QUASI TLV recording is made



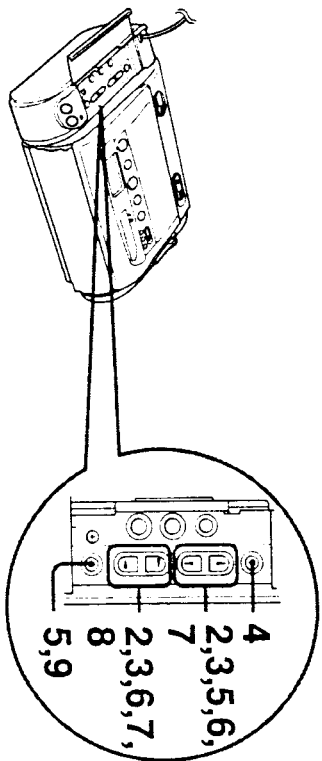
When an alarm signal is input during the QUASI TLV stand-by



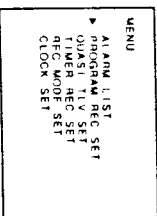
Setting the Program Recording Conditions

Setting the TIMER Recording Mode and Timer Programs

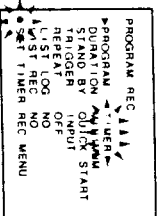
After setting the TIMER recording mode in the PROGRAM REC menu, you must preset timer programs in the TIMER REC menu.
 Make the timer programs as you wish, for example, according to the opening and closing time of your store, etc.



1 Select the PROGRAM REC menu.
 See page 17 for how to select the menu.

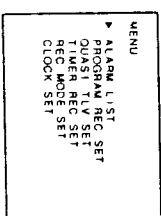


2 Set the program recording mode to TIMER.
 Press ▲ or ▼ to move the cursor (▶) to PROGRAM, and press ▶ or ◀ to select TIMER. The message "SET TIMER REC MENU" appears at the bottom of the screen.

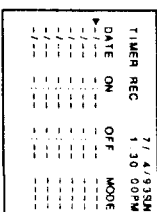


3 Check other items.
 Change the settings if necessary. (See pages 19 and 20.)

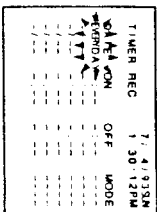
4 Press MENU.
 The MENU screen resumes.



5 Press ▲ or ▼ to move the cursor (▶) to TIMER REC SET, and press ENTER.
 The TIMER REC menu appears.



6 Set the date, starting time, and ending time.
 Press ▶ of the cursor keys to make the item to be set flash, and press ▲ or ▼ to the desired date or time appears.



To change an item which is already set
 Press ▶ or ◀ of the cursor keys to make the item to be changed flash, and press ▲ or ▼ to change it.

7 Set MODE to decide what to do within the designated period.

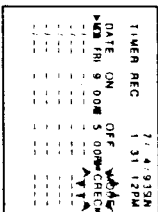
Press ▶ or ◀ to make the MODE column flash, and press ▲ or ▼ to select CREC, QTLV, or ALM.

CREC: The EVO-220 performs the CONTI REC (continuous recording).

QTLV: The EVO-220 performs a QUASI TLV recording as designated in the QUASI TLV SET menu.

When you select QTLV, the message "SET QUASI TLV MENU" appears on the bottom of the screen and you must set the QUASI TIME LAPSE SET menu.

ALM: The EVO-220 performs an ALARM recording as designated in the PROGRAM REC menu.



8 Press ▶ to store the setting.

If you want to make another setting, press ▼ to move the cursor (▶) to the next line, and repeat steps 4 and 5.

If you press ◀ repeatedly until the flashing item reaches the beginning of a line while "----" is displayed in the MODE column, the settings of that line are erased.

9 Press ENTER.
 The normal screen resumes.

To resume the MENU screen
 Press MENU.

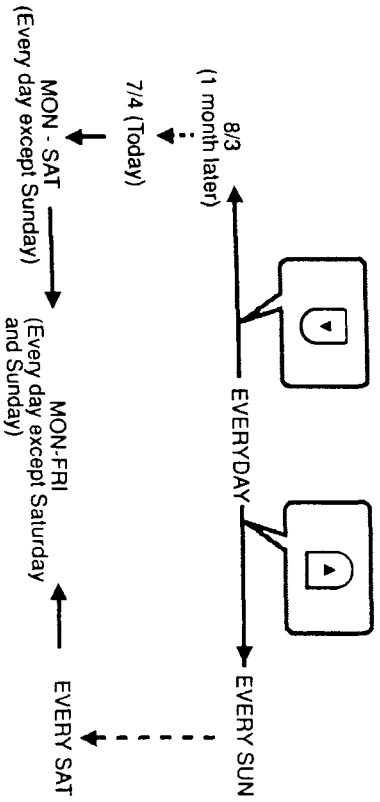
To clear the timer settings

Press ▲ or ▼ of the cursor keys to move the cursor (▶) to the setting to be cleared press CLEAR LIST DEC.

Setting the Program Recording Conditions

Every week recording and every day recording

You can preset to perform the same program recording every day or on a specific day of every week. When you set the date, press **▲** or **▼**, and the indication changes as follows:



Note on the stand-by status

In the STAND BY column in the PROGRAM REC menu, you can select QUICK START, POWER SAVE, or ALARM OFF to set the stand-by status before the starting time preset in the TIMER REC menu. (During the preset TIMER recording period, the stand-by status is automatically set to QUICK START.)

Note on the timer setting which works only on a specific day

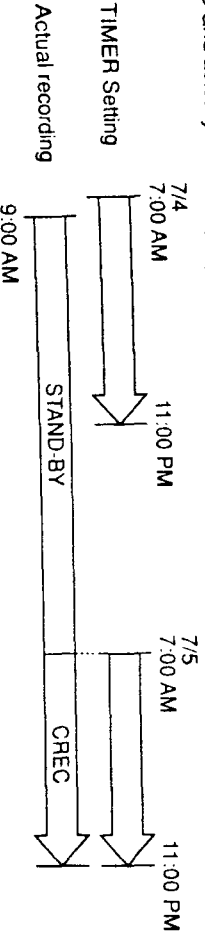
The timer setting will be cleared after the starting time has passed. However, the EVO-220 does not exit the program recording mode even if all the timer setting are cleared. If you want to exit the program recording mode, press PGM REC ON/OFF.

When you press PGM REC ON/OFF after the preset starting time

The EVO-220 enters the program recording stand-by mode, not the program recording mode.

Example

Preset TIMER setting: EVERYDAY, from 7:00AM to 11:00PM, CREC mode
 If you press PGM REC ON/OFF at 9:00AM, July 4, the EVO-220 enters the program recording stand-by mode and actually starts the program recording at 7:00AM, July 5.

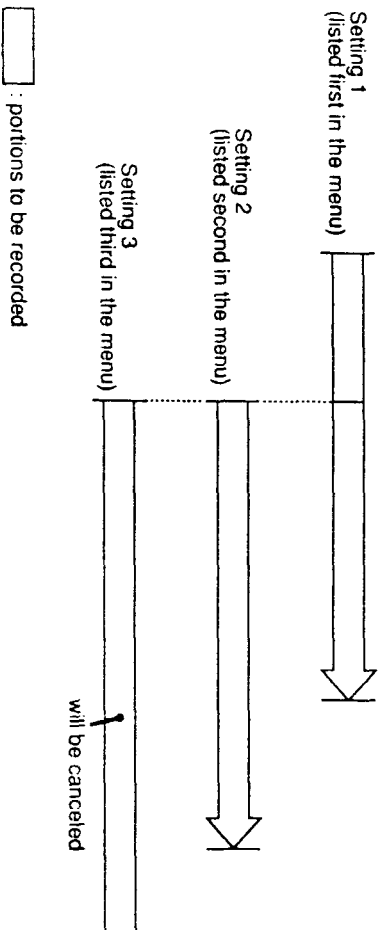


If you want to perform a program recording today, make an additional TIMER setting as follows:
 Additional TIMER setting: 7/4 (today), from 9:05AM (a little later than the current time) to 11:00PM, CREC mode

When the settings of TIMER recordings overlap

- If the starting time of one setting comes before the recording of the other setting ends. The recording of setting 2 starts before setting 1 ends.
- If the starting time of two settings are the same. The setting which is preset on the upper line in the TIMER REC SET menu will be recorded and the other setting will be canceled.

Example



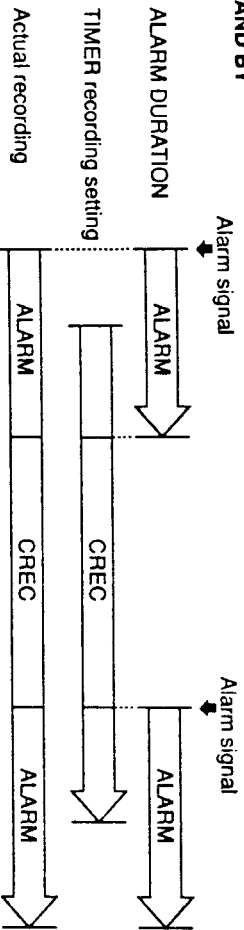
- Setting 1: The recording will stop before the designated ending time.
- Setting 2: The recording will be performed completely.
- Setting 3: The setting will be canceled.

Setting the Program Recording Conditions

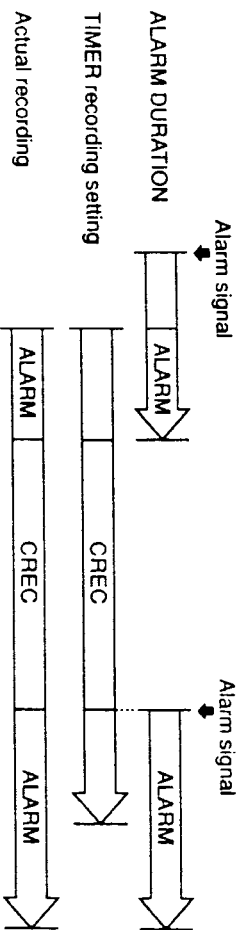
When an alarm signal is input in TIMER recording mode

Example

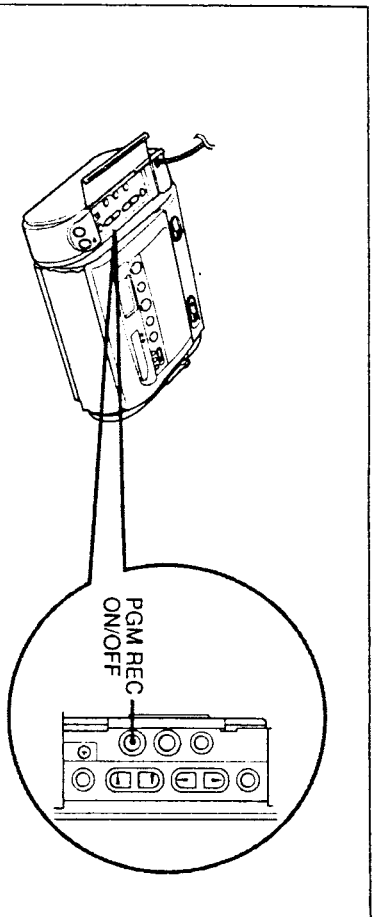
When an alarm signal is input when you set CREC in MODE, and QUICK START or POWER SAVE in STAND BY



When an alarm signal is input when you set CREC in MODE, and ALARM OFF in STAND BY



Entering the Program Recording Mode



After selecting the program recording mode in the PROGRAM REC menu and completing the det: settings in each menu, press PGM REC ON/OFF.

This adaptor enters stand-by mode with the PGM REC lamp lighting or starts recording with the P lamp flashing, depending on the program recording mode you have selected.

To exit the program recording mode

If you want to exit the program recording stand-by mode or you want to stop a program recording, PGM REC ON/OFF again.

The PGM REC lamp goes off.

Note on video tapes

Before pressing PGM REC ON/OFF, make sure that a tape with its safety tab slid in is inserted in EVO-220. If the safety tab is slid out (the red tab window is visible), the EVO-220 does not enter the program recording mode.

Note on the buttons

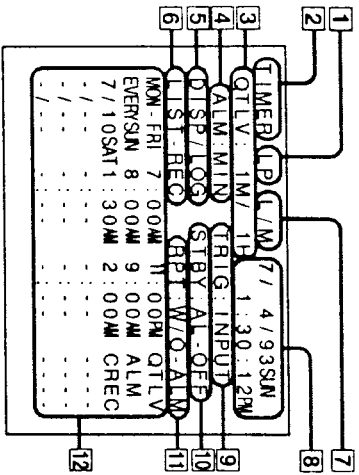
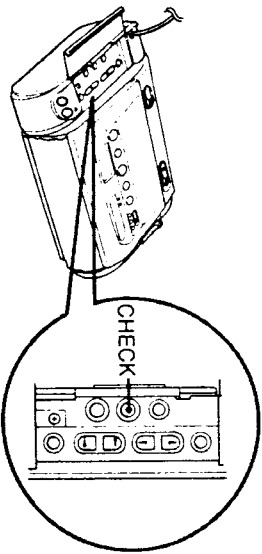
During program recording and program recording stand-by mode, the buttons on the EVO-220 and buttons on this adaptor (except for CHECK and PGM REC ON/OFF) usually become inoperative. However, under certain conditions, the buttons may work. Be sure to close the lid.

Changing the Settings

- 1 Press PGM REC ON/OFF to exit the program recording mode.
- 2 Turn on the EVO-220 if it turns off.
- 3 Change the settings as you wish.

Checking the Settings

You can check the setting of this adaptor before you press PGM REC ON/OFF to start a program recording or during program recording stand-by mode. The following screen appears when you press CHECK.

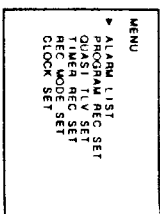


- 1 Tape speed for program recordings
- 2 Setting of PROGRAM in the PROGRAM REC menu
- 3 CONTI stands for CONTI REC, and Q-TLV for QUASI TLV.
- 4 Setting of the QUASI TLV SET menu
- 5 For example, 1M/1H means 1-minute recording at 1-hour interval. (When QUASI TLV is not selected in PROGRAM in the PROGRAM REC menu or when QTLV is not selected in MODE in the TIMER REC menu, nothing is indicated.)
- 6 Setting of DURATION of the PROGRAM REC menu
- 7 MIN stands for MINIMUM, and END for TAPE END.
- 8 Setting of ALARM DISPLAY in the CLOCK SET sub-menu and LIST LOG in the PROGRAM REC menu
- 9 DISP is indicated when the alarm number is displayed on the screen. LOG is indicated when the alarm number is memorized in the alarm list. DISP/LOG is indicated when the alarm number is displayed on the screen and memorized in the alarm list. Nothing is indicated when the alarm number is not displayed and not memorized in the alarm list
- 10 Setting of LIST REC in the PROGRAM REC menu
- 11 LIST-REC is indicated when the alarm list is automatically recorded on the tape. Nothing is indicated when the alarm list is not recorded on the tape.
- 12 Audio input level
- 1 L stands for line input level, and M for microphone input level.
- 2 For example, LM means line input level for the left channel and microphone input level for the right channel.
- 3 Time and date
- 4 Setting of TRIGGER of the PROGRAM REC menu
- 5 P-OFF stands for POWER OFF.
- 6 Setting of STAND BY in the PROGRAM REC menu (When CONTI REC or QUASI TLV is selected in PROGRAM in the PROGRAM REC menu, nothing is indicated.)
- 7 Q-START stands for QUICK START, P-SAVE for POWER SAVE, and AL-OFF for ALARM OFF.
- 8 Setting of REPEAT in the PROGRAM REC menu
- 9 W-ALM stands for ON W-ALM, and W/O-ALM for ON W/O-ALM. Nothing is indicated when OFF is selected.
- 10 Settings of the TIMER REC menu
- 11 Nothing is indicated when TIMER is not selected in PROGRAM in the PROGRAM REC menu

Checking the Alarm List

This adaptor memorizes the alarm number (up to 9999) and the date/time and cause of the alarm recordings (first 32 events since you select YES in LIST LOG in the PROGRAM REC menu) in its memory and displays the list on the monitor. Since one page of the list displays up to 6 lines of the time and cause of the alarm recordings, the list contains 6 pages at its maximum.

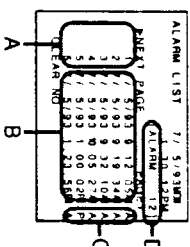
- 1 Press MENU. The MENU screen appears on the monitor connected to the EVO-220.



- 2 Press ▲ or ▼ to move the cursor (▶) to ALARM LIST, and press ENTER. The ALARM LIST menu appears.

If the list has more than one page, press ▶ to go to the next page or ◀ to go back to the previous page. The list shows:

- A: The alarm number
- B: The date and time of the alarm recordings
- C: The cause of the alarm recordings
- A – the alarm recording caused by an alarm signal
- P – the alarm recording caused by a power failure (or indicates a power failure while an alarm recording is made)
- D: The total number of alarm signals



- 3 Press ENTER. The normal screen resumes.

To clear the alarm list

Method 1: Slide the EJECT switch on the EVO-220 to eject the tape and insert a new tape.

Method 2:

Select YES in CLEAR in the ALARM LIST menu (press ▲ or ▼ to move the cursor (▶) to CLEAR, a press ▶ or ◀), and press ENTER. The contents of the alarm list are cleared from the memory of this adaptor.

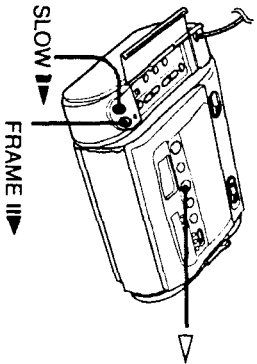
To record the alarm list on the tape

Method 1: Press CLEAR/LIST REC in normal mode, or while the ALARM LIST menu is displayed.

Method 2: Select YES in LIST REC in the PROGRAM REC menu. The alarm list is automatically recorded on the tape when you exit the program recording mode.

Slow Motion and Frame-by-Frame Playback

When you play back a tape, you can see a slow motion picture or a frame-by-frame picture using the buttons on this adaptor, even though the EVO-220 is not equipped with such functions.



Slow Motion Playback

During playback, press **SLOW** \blacktriangleright on this adaptor.
The slow motion playback starts.

To resume normal playback

Press \blacktriangleright (play) on the EVO-220.

Frame-by-Frame Playback

During playback pause, press **FRAME II** \blacktriangleright on this adaptor.
The frame-by-frame playback starts.

To resume normal playback

Press \blacktriangleright (play) on the EVO-220.

Note

During slow motion playback or frame-by-frame playback, noise may appear on the picture.

Specifications

Timer section

Clock
Time indication

Crystal lock
Selectable between 12-hour (factory setting) and 24-hour formats

Inputs

Video input

Phono jack (1)
1 V_{p-p}, 75 ohms, unbalanced, sync negative

Audio input

Phono jack (2)

-7.5 dBs (LINE)/-60 dBs (MIC) selectable (0 dBs=0.775 Vrms),

input impedance: more than 47 kilohms

ALARM INPUT

Mini jack (1)

Contact closure: active short

General

Power requirements DC 6.0 V supplied from the EVO-220 video cassette recorder

Power consumption 1.0 W

Operating temperature 0°C to 40°C (32°F to 104°F)

Storage temperature -20°C to 60°C (-4°F to 140°F)

Dimensions 34.5 X 64.5 X 121.5 mm (w/h/d)

(1 3/8 X 2 5/8 X 4 7/8 inches)

Mass Approx. 125 g (4 oz)

Accessories supplied Lithium battery CR2032 (1)

Design and specifications are subject to change without notice.

Troubleshooting

If you have a problem with this adaptor, first check the EVO-220 video cassette recorder while referring to the troubleshooting guide in the operation manual of the EVO-220, then go through the list below before calling the Sony service facility. Should the problem persists, consult your Sony service facility.

Symptom	Possible cause and/or corrections
The CLOCK SET menu appears when the EVO-220 turns on, even though you have already set the clock.	<ul style="list-style-type: none"> • The lithium battery has run down or no lithium battery is installed. <ul style="list-style-type: none"> ➔ Install a new lithium battery.
The sound is low, distorted, or noisy.	<ul style="list-style-type: none"> • Audio input level is not set correctly. <ul style="list-style-type: none"> ➔ Set the correct audio input level in the REC MODE set menu.
The contents of the alarm list are not correct.	<ul style="list-style-type: none"> • The usable life of the adaptor's memory is over. <ul style="list-style-type: none"> ➔ Replace the memory at your nearest Sony service facility. (A standard service charge will be required.)
The program recording does not operate.	<ul style="list-style-type: none"> • The EVO-220 is not in program recording mode. <ul style="list-style-type: none"> ➔ Press PGM REC ON/OFF so that the PGM REC lamp lights up or flashes. • The clock is not set correctly. <ul style="list-style-type: none"> ➔ Set the clock correctly. • The safety tab of the cassette is slid out. <ul style="list-style-type: none"> ➔ Slide the safety tab in. • The desired program recording mode is not selected in PROGRAM in the PROGRAM REC menu. • The TIMER settings overlap or the settings are not correct. <ul style="list-style-type: none"> ➔ Check the program record setting with the CHECK screen. If the setting is not correct, set it again.
The PGM REC lamp flashes rapidly with "TAPE END" indicated on the screen.	<ul style="list-style-type: none"> • This adaptor is in emergency mode after reaching the tape end during a program recording, when the automatic repeat function is set to OFF, or set to ON W/O-ALM and there was an alarm signal input. <ul style="list-style-type: none"> ➔ Press PGM REC ON/OFF to exit program recording mode.
This adaptor does not operate.	<ul style="list-style-type: none"> • This adaptor is not connected to the EVO-220 firmly. <ul style="list-style-type: none"> ➔ Make the connection firmly. • The ADAPTOR ON/OFF switch is set to OFF. <ul style="list-style-type: none"> ➔ Set the switch to ON.