

Panasonic

Model No.



NV-VZ14EN

NV-VZ15EN/ENC/EM/EMM/A

NV-RZ15EN/ENC/EM

VHS-C 攝錄影機
VHS-C Movie Camera

使用說明書

Operating Instructions

Инструкция по эксплуатации

إرشادات التشغيل

	NV-VZ14EN	NV-VZ15EN/ ENC/EM/EMM/A	NV-RZ15EN/ ENC/EM
液晶監視顯示器 LCD Monitor ЖКИ видеомонитор شاشة المراقبة LCD			—
遙控器 Remote Controller Устройство дистанционного управления مفتاح التحكم عن بعد	—		

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使用前，請詳細閱讀本說明書。

Before use, please read these instructions completely.

Перед использованием прочитайте, пожалуйста, эту инструкцию полностью.

قبل الاستخدام، الرجاء قراءة هذه الإرشادات - تكتمل.



VQT9486
LYT0885-001A

目錄

如果您想馬上使用攝錄影機，至少須閱讀帶◆標識的頁號。

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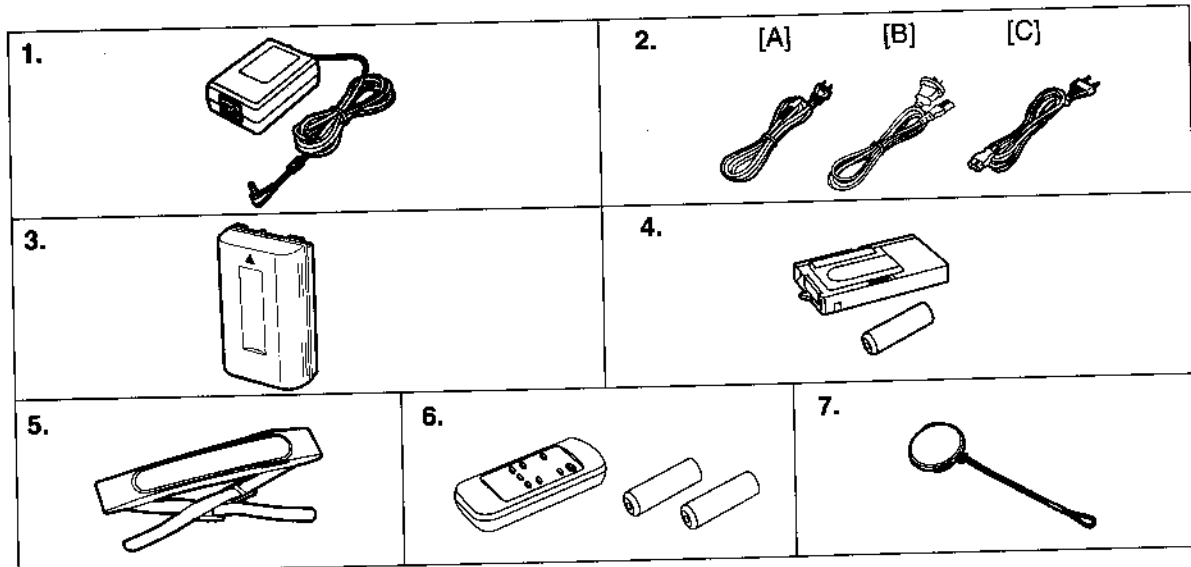
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標準附件

1. 交流轉接器 (→ 18, 20, 130)
給攝錄影機供電或對電池充電。
2. 交流電源纜線 (→ 18, 20)
將交流轉接器連接至交流電源插座。
[A] 中華人民共和國
[B] 澳大利亞和新西蘭
[C] 中華人民共和國、澳大利亞和新西蘭以外的地區
3. 電池 (→ 20, 132)
給攝錄影機供電。
4. 磁帶轉接器和電池 (→ 60)
5. 肩用背帶 (→ 16)
6. 遙控器和遙控器使用的電池 (→ 104, 106)
(僅限於 NV-VZ15/RZ15)
7. 鏡頭蓋 (→ 44)

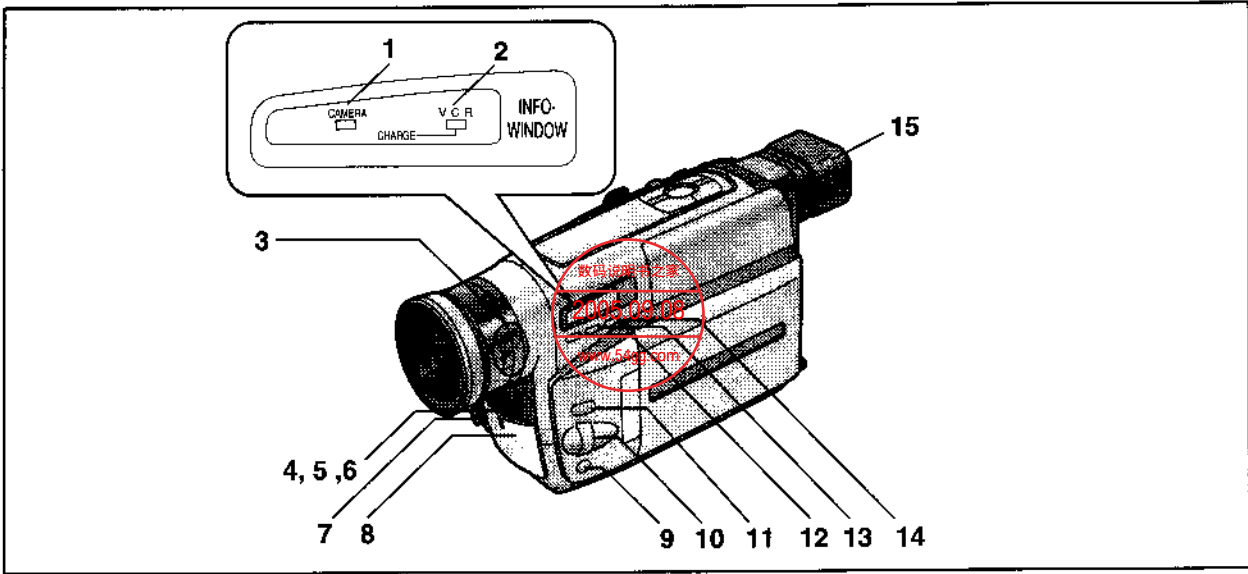
標準附件若有變更，恕不另行通知。

ENGLISH

Standard Accessories

1. **AC Adaptor (→ 18, 20, 130)**
To supply power to the Movie Camera and to charge the Battery.
2. **AC Mains Lead (→ 18, 20)**
To connect the AC Adaptor to an AC mains socket.
[A] The People's Republic of China
[B] Australia and New Zealand
[C] Areas other than the People's Republic of China, Australia and New Zealand
3. **Battery (→ 20, 132)**
To supply power to the Movie Camera.
4. **Cassette Adaptor and Battery (→ 60)**
5. **Shoulder Strap (→ 16)**
6. **Remote Controller and Batteries for Remote Controller (→ 104, 106) (NV-VZ15/RZ15 only)**
7. **Lens Cap (→ 44)**

Standard Accessories are subject to change without notice.



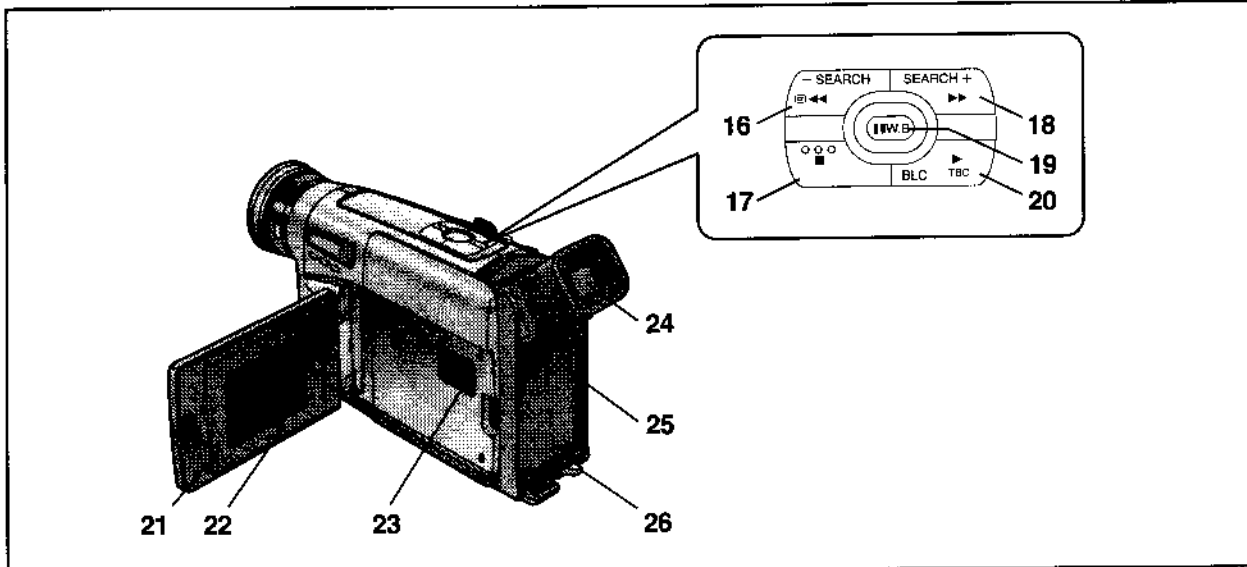
控制 and 組件

- 1 攝錄影機狀態燈 [CAMERA] (→ 50)
- 2 放影機狀態 / 充電燈 [VCR/CHARGE] (→ 20·56)
- 3 0-Lux 拍攝開關 [0 LUX OFF/ON] (→ 88)
- 4 白色平衡感應器 (→ 136)
- 5 遙控感應器 (→ 104) (僅限於 NV-VZ15/RZ15)
- 6 內藏紅外線光束發射器 (→ 88)
- 7 鏡頭蓋夾 (→ 44)
- 8 麥克風
- 9 聚焦鈕 [FOCUS] (→ 94)
項目設定鈕 [SET] (→ 26)
軌跡調整鈕 (→ 62)
- 10 多功能環 [▲▼/MF/TRACKING] (→ 26·62·94)
- 11 菜單鈕 [MENU] (→ 26)
- 12 自動曝光選擇鈕 [PROG. AE] (→ 50·90·94·96)
- 13 淡化鈕 [FADE] (→ 76·120)
- 14 超級畫面穩定器鈕 [SIS] (→ 68)
- 15 取景器

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Controls and Components

- 1 Camera Mode Lamp [CAMERA] (→ 50)
- 2 VCR Mode/Charging Lamp [VCR/CHARGE] (→ 20, 56)
- 3 0-Lux Recording Switch [0 LUX OFF/ON] (→ 88)
- 4 White Balance Sensor (→ 136)
- 5 Remote Control Sensor (→ 104)
(NV-VZ15/RZ15 only)
- 6 Built-in Infra-red Beam Emitters (→ 88)
- 7 Lens Cap Holder (→ 44)
- 8 Microphone
- 9 Focus Button [FOCUS] (→ 94)
Item Set Button [SET] (→ 26)
Tracking Button (→ 62)
- 10 Multi-Function Dial [▲▼/MF/TRACKING] (→ 26, 62, 94)
- 11 Menu Button [MENU] (→ 26)
- 12 Auto Exposure Selector Button [PROG. AE]
(→ 50, 90, 94, 96)
- 13 Fade Button [FADE] (→ 76, 120)
- 14 Super Image Stabilizer Button [SIS] (→ 68)
- 15 Eyecup

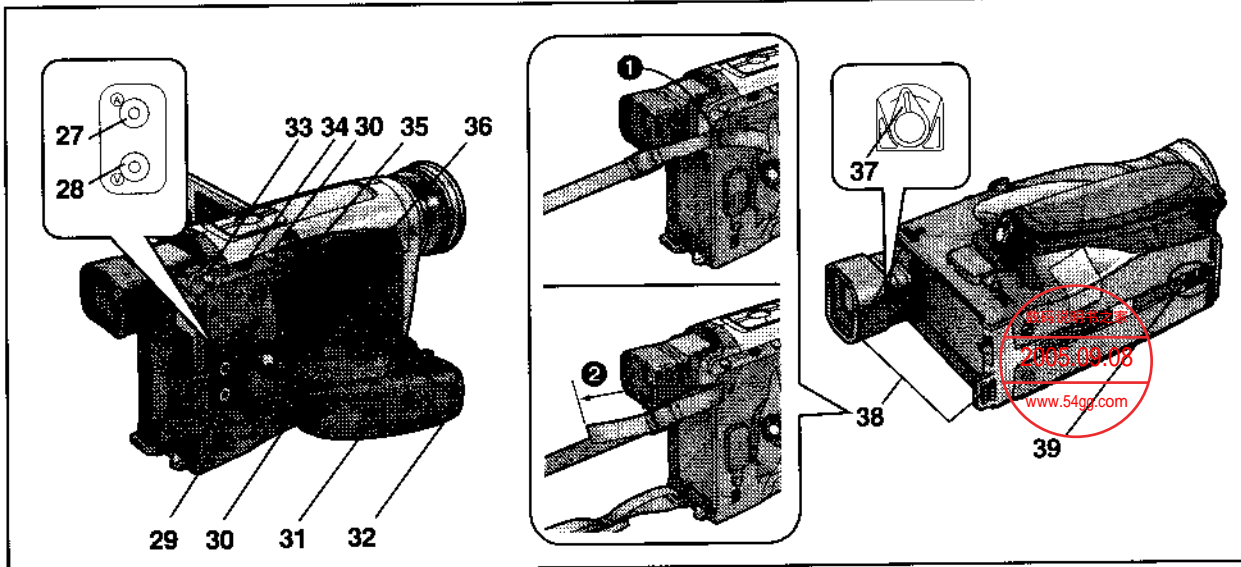


中文

- 16 反向尋影鈕 [-SEARCH] (→ 52)**
倒帶/倒帶尋影鈕 [◀◀] (→ 56, 64)
錄影檢查鈕 [Ⓢ] (→ 52)
 - 17 停止鈕 [■] (→ 56)**
 - 18 正向尋影鈕 [SEARCH+] (→ 52)**
快進/快進尋影鈕 [▶▶] (→ 64)
 - 19 白色平衡鈕 [W.B.] (→ 90)**
暫停鈕 [⏸] (→ 64)
 - 20 放影鈕 [▶] (→ 56)**
逆光鈕 [BLC] (→ 52)
時基校正器鈕 [TBC] (→ 58)
 - 21 液晶顯示監視器打開桿 [▲ OPEN] (→ 24)**
(僅限於 NV-VZ14/VZ15)
 - 22 液晶顯示監視器 (→ 24, 38, 66) (僅限於 NV-VZ14/VZ15)**
- 由於液晶製造技術的限制，在液晶顯示監視器屏幕上可能會有一些細小的亮點或黑點。然而，這並非故障，也不會影響所攝畫面的質量。
- 23 錄影帶室鎖定鈕 [LOCK] (→ 40)**
 - 24 電子尋像器 (→ 44, 66)**
- 由於液晶製造技術的限制，在電子尋像器屏幕上可能會有一些細小的亮點或黑點，整個屏幕可能有輕微的色偏，或出現顫動現象。然而，這並非故障，也不會影響所攝畫面的質量。
- 25 電池室蓋 (→ 20)**
 - 26 電池取出桿 [◀ BATTERY EJECT] (→ 20)**

ENGLISH

- 16 Reverse Search Button [-SEARCH] (→ 52)**
RewInd/Review Button [◀◀] (→ 56, 64)
Recording Check Button [Ⓢ] (→ 52)
 - 17 Stop Button [■] (→ 56)**
 - 18 Forward Search Button [SEARCH+] (→ 52)**
Fast Forward/Cue Button [▶▶] (→ 64)
 - 19 White Balance Button [W.B.] (→ 90)**
Pause Button [⏸] (→ 64)
 - 20 Playback Button [▶] (→ 56)**
Backlight Button [BLC] (→ 52)
TBC Button [TBC] (→ 58)
 - 21 LCD Monitor Open Lever [▲ OPEN] (→ 24)**
(NV-VZ14/VZ15 only)
 - 22 LCD Monitor (→ 24, 38, 66) (NV-VZ14/VZ15 only)**
- Due to limitations in LCD production technology, there may be some tiny bright or dark spots on the LCD Monitor screen. However, this is not a malfunction and does not affect the recorded picture.
- 23 Cassette Compartment Lock Button [LOCK] (→ 40)**
 - 24 Finder (→ 44, 66)**
- Due to limitations in LCD production technology, there may be some tiny bright or dark spots on the Finder screen, the whole screen may have a slight colour cast, and flickering may occur. However, this is not a malfunction and does not affect the recorded picture.
- 25 Battery Holder (→ 20)**
 - 26 Battery Eject Lever [◀ BATTERY EJECT] (→ 20)**

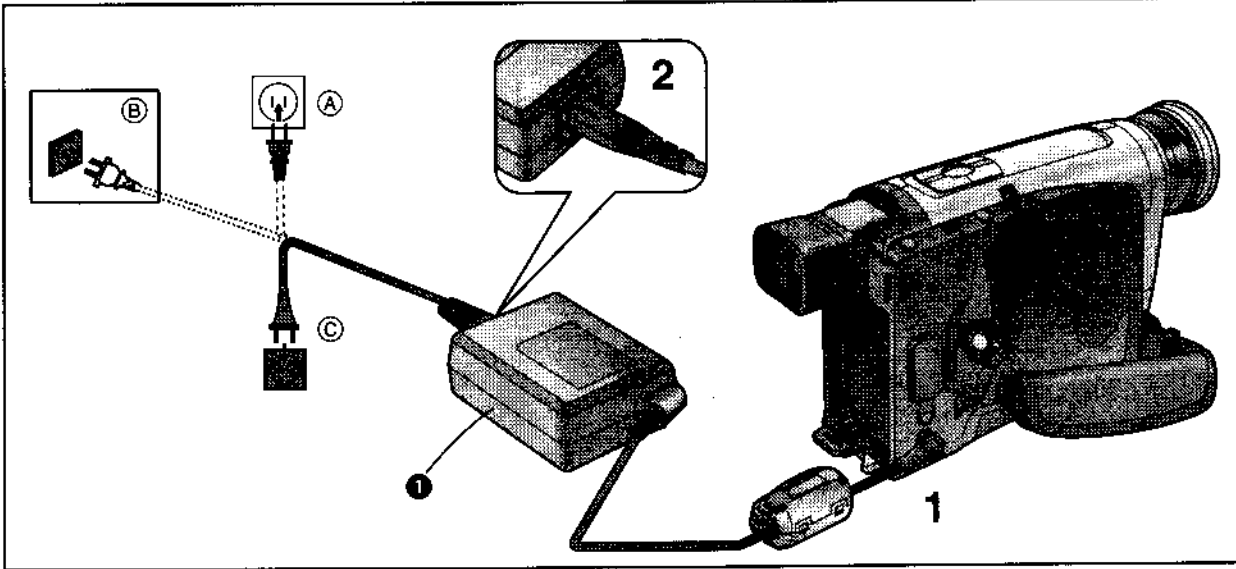


中

- 27 音頻輸出插孔 [Ⓐ] (→ 66·128)
- 28 影像輸出插孔 [Ⓥ] (→ 66·128)
- 29 直流輸入插孔 [DC IN] (→ 18)
- 30 拍攝開始/停止鈕 (→ 50)
請根據拍攝角度使用上述兩鈕中的任一鈕。
- 31 扣抓皮帶 (→ 44)
- 32 揚聲器 (→ 56) (僅限於 NV-VZ14/VZ15)
- 33 錄影帶排出鈕 [▲ EJECT] (→ 40)
- 34 日期/時間/題名鈕 [DATE/TITLE] (→ 48·114·116)
- 35 變焦桿 [W/T] (→ 54·74)
音量調節桿 [-VOL+] (→ 56) (僅限於 NV-VZ14/VZ15)
- 36 關閉/打開狀態選擇開關 [CAMERA/OFF/VCR]
(→ 44·50·56·66)
- 37 目鏡校正控制桿 (→ 44)
- 38 肩用背帶環
將肩用背帶一端穿過肩用背帶環 ①。
將肩用背帶的末端反折起來，然後將其穿過肩用背帶長度調節器。
將背帶的末端拉出肩用背帶長度調節器之外約 2 釐米 ②，使其不易滑脫。
- 39 三角架連接孔

ENGLISH

- 27 Audio Output Socket [Ⓐ] (→ 66, 128)
- 28 Video Output Socket [Ⓥ] (→ 66, 128)
- 29 DC Input Socket [DC IN] (→ 18)
- 30 Recording Start/Stop Buttons (→ 50)
Use either of these buttons depending on the recording angle.
- 31 Grip Belt (→ 44)
- 32 Speaker (→ 56) (NV-VZ14/VZ15 only)
- 33 Cassette Eject Button [▲ EJECT] (→ 40)
- 34 Date/Time/Title Button [DATE/TITLE]
(→ 48, 114, 116)
- 35 Zoom Lever [W/T] (→ 54, 74)
Volume Adjustment Lever [-VOL+] (→ 56)
(NV-VZ14/VZ15 only)
- 36 Off/On Mode Selector Switch [CAMERA/OFF/VCR]
(→ 44, 50, 56, 66)
- 37 Eyepiece Corrector Lever (→ 44)
- 38 Shoulder Strap Holders
Pull one end of the Shoulder Strap through the Shoulder Strap Holder ①.
Fold the end of the Shoulder Strap back, pull it through the Shoulder Strap Length Adjuster.
Pull it out more than 2 cm ② from the Shoulder Strap Length Adjuster so that it cannot slip off.
- 39 Tripod Receptacle



中文

二種電源

- 1) 交流轉接器 ① (附件) 由交流電源插座供電
- 2) 電池 (附件) (→ 20)

由交流電源插座供電

- 1 將交流適配器連接至攝錄影機的 [DC IN] (直流輸入) 插孔。
- 2 將交流電源纜線連接至交流轉接器和交流電源插座。
 - AC 電源線的插頭不能被完全插入 AC 電源插座之內。如上圖所示，將會有間隙。
 - ① 中華人民共和國
 - ② 澳大利亞和新西蘭
 - ③ 中華人民共和國、澳大利亞和新西蘭以外的地區

- 將交流適配器連接至攝錄影機之前，必須將 [CAMERA/OFF/VCR] 開關設置在 [OFF]。
- 由於交流轉接器具備自動通用電壓調節功能 (交流 110-240V, 50/60Hz)，所以在其它國家使用時也無需作任何手動電壓調整。

ENGLISH

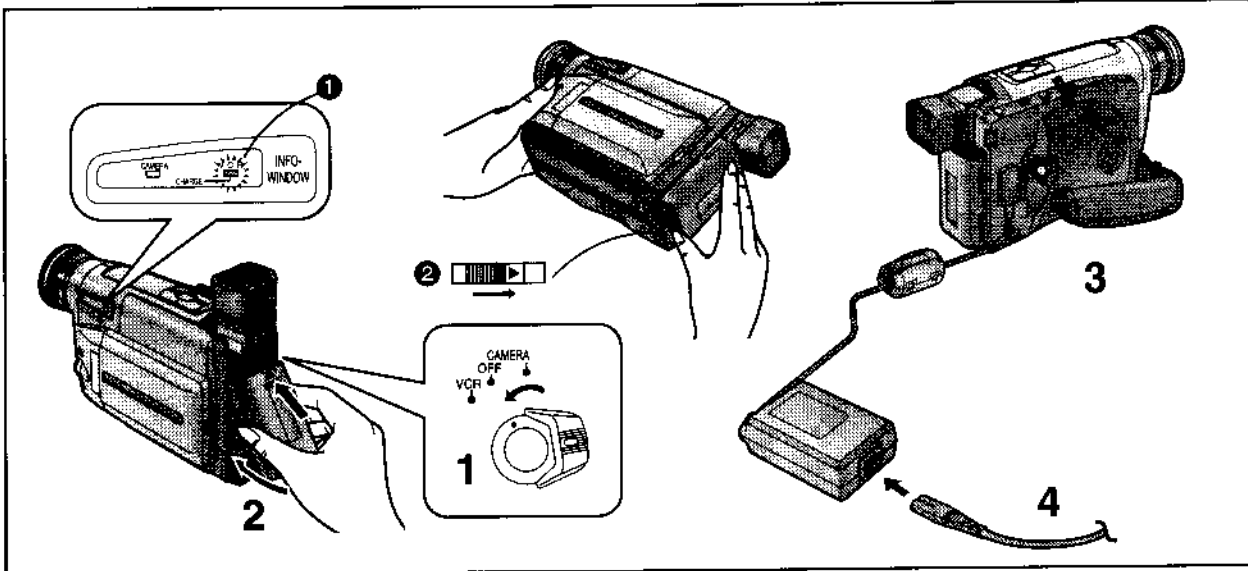
The 2 Types of Power Supply

- 1) AC Adaptor ① (supplied) to supply power from an AC mains socket
- 2) Battery (supplied) (→ 20)

Supplying Power from an AC Mains Socket

- 1 Connect the AC Adaptor to the [DC IN] Socket on the Movie Camera.
- 2 Connect the AC Mains Lead to the AC Adaptor and to an AC mains socket.
 - The AC Mains Lead's outlet plug cannot be pushed fully into the AC Adaptor socket. A gap will remain as shown above.
 - ① The People's Republic of China
 - ② Australia and New Zealand
 - ③ Areas other than the People's Republic of China, Australia and New Zealand

- Before connecting the AC Adaptor to the Movie Camera, be sure to set the [CAMERA/OFF/VCR] Switch to [OFF].
- The AC Adaptor features automatic universal voltage adjustment (AC 110-240 V, 50/60 Hz), therefore, there is no need for any manual voltage adjustment for use in other countries.



中文

由電池供電

在使用電池前請先將其充電。

- 1 將[CAMERA/OFF/VCR]開關設置在[OFF]。
- 2 將電池的頂部插入錄影帶電池室蓋的頂部(這樣箭頭將朝上),並將其底部按入攝錄影機,直至咔嗒一聲到位。
- 3 將交流轉接器連接至攝錄影機上的[DC IN]插座。
- 4 將交流電源綫連接至交流轉接器和交流電源插座。
 - [CHARGE]燈 ① 將閃爍並開始充電。
 - 如果即使已安裝了電池,[CHARGE]燈也不閃爍,這時請取下電池,再從頭安裝一次。

從攝錄影機上取出電池時

三靠地握住電池,以免其失落,並依箭頭方向滑動[◀BATTERY EJECT]桿 ②,同時拉出電池。

- 取出電池之前,請將[CAMERA/OFF/VCR]開關設置在[OFF]。

■ 充電指示燈 [CHARGE]

閃爍:	正在充電
與[CAMERA]燈同時閃爍時:	當發生出錯時
點亮	放影機狀態
熄滅	電池已充足電。

- 將[CAMERA/OFF/VCR]開關設置在[OFF],可更換電池。
- 電池充電的室內溫度應為10°C-30°C。
- 在充電或充電中,電池會發熱,這是正常現象。
- 若要獲得更精確的電池剩餘電力指示,安裝電池時,最好選用已充足電的電池。

ENGLISH

Supplying Power with the Battery

Charge the Battery before using it.

- 1 Set the [CAMERA/OFF/VCR] Switch to [OFF].
- 2 Insert the Battery with its top (so that the arrow points upward) into the top Battery Holder and press the bottom of it toward the Movie Camera until it locks with a click.
- 3 Connect the AC Adaptor to the [DC IN] Socket on the Movie Camera.
- 4 Connect the AC Mains Lead to the AC Adaptor and an AC mains socket.
 - The [CHARGE] Lamp ① flashes and charging starts.
 - If the [CHARGE] Lamp does not flash even though the Battery is attached, remove the Battery and then re-attach it.

Removing the Battery from the Movie Camera




Hold the Battery firmly to prevent it from dropping and pull it off while sliding the [◀BATTERY EJECT] Lever ② in the direction of the arrow.

- Before removing the Battery, set the [CAMERA/OFF/VCR] Switch to [OFF].

■ Charging Lamp [CHARGE]

Flashing:	During charging
Flashing with [CAMERA] Lamp:	When error occurs
Lit:	VCR Mode
Off:	The Battery is fully charged.

- Set the [CAMERA/OFF/VCR] Switch to [OFF] to charge the Battery.
- Charge the Battery at a room temperature between 10°C and 30°C.
- During recording or charging, the Battery becomes warm. However, this is normal.
- To ensure precise indication of the remaining battery power, always use a fully charged Battery when attaching a Battery.

		NV-VZ14/VZ15	NV-RZ15
CGR-V14 CGR-V14S 	(A)	1 h 40 min.	1 h 40 min.
	(B)	2 h 55 min. (2 h 05 min.)	2 h 55 min.
CGR-V26S 	(A)	3 h 10 min.	3 h 10 min.
	(B)	5 h 25 min. (4 h 05 min.)	5 h 25 min.
CGR-V53S 	(A)	6 h 20 min.	6 h 20 min.
	(B)	10 h 50 min. (8 h.)	10 h 50 min.

■ 充電時間和最長連續錄影時間

(A) 充電時間

(B) 最長連續拍攝時間

- “1 h 10 min.” 意思為 “1 小時 10 分鐘”。
- 型號 CGR-V14 的電池為附件。
- 上表所列時間為近似值。括號內的數字表示使用 * 液晶顯示監視器時的拍攝時間。
- * 液晶顯示監視器：僅限於 NV-VZ14/VZ15

最長連續拍攝時間指在環境溫度 25°C 和相對濕度 60% 的條件，進行連續拍攝的時間。然而，在實際拍攝中，由於使用變焦和其它功能會增加電力的消耗，且溫度較高或較低時，會影響電池產生電力的能力。所以，每個電池的實際錄影時間，可能會比上表所列，要短約 30%–50%。

ENGLISH

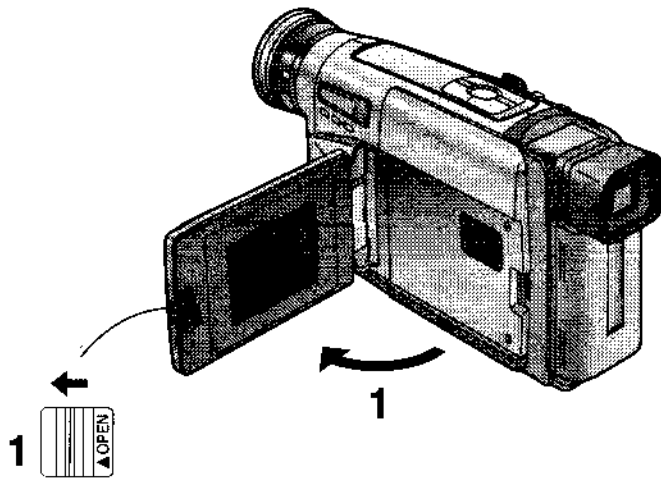
■ Charging Time and Maximum Time for Continuous Recording

(A) Charging Time for a Full Charge

(B) Maximum Continuous Recording Time

- “1 h 10 min.” stands for “1 hour and 10 minutes”.
- The Battery Model CGR-V14 is supplied.
- The times shown in the above chart are approximations. The figures in parentheses show the recording time when using the *LCD Monitor.
- *LCD Monitor: **NV-VZ14/VZ15 only**

Maximum Continuous Recording Time means the duration of continuous recording performed at an ambient temperature of 25°C and 60% relative humidity. In actual recording, however, the use of the zoom and other functions increases the power consumption, and higher or lower temperatures reduce the Battery's ability to generate electricity. Therefore, the actual recording time per Battery may be approximately 30%–50% shorter than listed above.



中文

液晶顯示監視器的使用 (僅限於NV-VZ14/VZ15)

改善後的液晶顯示背光透射能力使畫面額外明亮。另外，液晶顯示表面的特殊膜層可擴散外來光線，使反光降至最低，所以畫面色彩生動、清晰易看。

1 向左滑動[▲OPEN]桿，同時如箭頭所示，將液晶顯示監視器打開約90°。

關閉液晶顯示監視器時

將液晶顯示監視器返回攝錄影機本體，直至其卡嗒一聲到位。

- 在關閉液晶顯示監視器之前，請恢復其垂直位置，且須在關閉液晶顯示監視器之前，確認錄影帶室已牢靠地關閉。
- 打開液晶顯示監視器時，將自動關閉電子尋像器。然而，當您將液晶顯示監視器面向前方時，電子尋像器將再次打開。
- 在攝錄影機溫度特別低的情況下，將其打開時，液晶顯示監視器上的畫面會比平常暗。然而，待其到達正常溫度時，將獲得正常的亮度。
- 清除手印時，請用軟布擦拭液晶顯示監視器。
- 勿將液晶顯示監視器暴露在直射陽光之下。當陽光照射在液晶顯示監視器上時，將可能很難看清畫面。

在液晶顯示監視器的生產中採用了精度極高的技術。結果獲得了99.99%的有效像點，而只有0.01%的像點失效或過亮。然而，這並非故障，也不會影響所攝畫面的質量。

ENGLISH

Using the LCD Monitor (NV-VZ14/VZ15 only)

Improved LCD backlight transmission makes the picture extra bright. In addition, special coating of the LCD's surface diffuses the light from outside to minimize light reflection, so the picture has vivid colours and is easy to see.

1 Slide the [▲OPEN] Lever to the left and simultaneously open the LCD Monitor in the direction of the arrow approximately 90°.

Closing the LCD Monitor

Turn the LCD Monitor back toward the Movie Camera body until it locks with a click.

- Return the LCD Monitor to its vertical position before closing it. Also, make sure that the Cassette Compartment is securely closed before closing the LCD Monitor.
- Opening the LCD Monitor automatically turns the Finder off. However, when you turn the LCD Monitor so that it faces forward, the Finder turns on again.
- When the Movie Camera is very cold when turning it on, the picture on the LCD Monitor is darker than normally. However, as it reaches normal temperature, it regains its normal brightness.
- To remove fingerprints, wipe the LCD Monitor with a soft cloth.
- Do not expose the LCD Monitor to direct sunlight. When sunlight falls onto the LCD Monitor, it may be difficult to view the picture.

Extremely high precision technology is employed to produce the LCD Monitor. The result is more than 99.99% active pixels with a mere 0.01% of the pixels inactive or always lit. However, this is not a malfunction and does not affect the recorded picture.

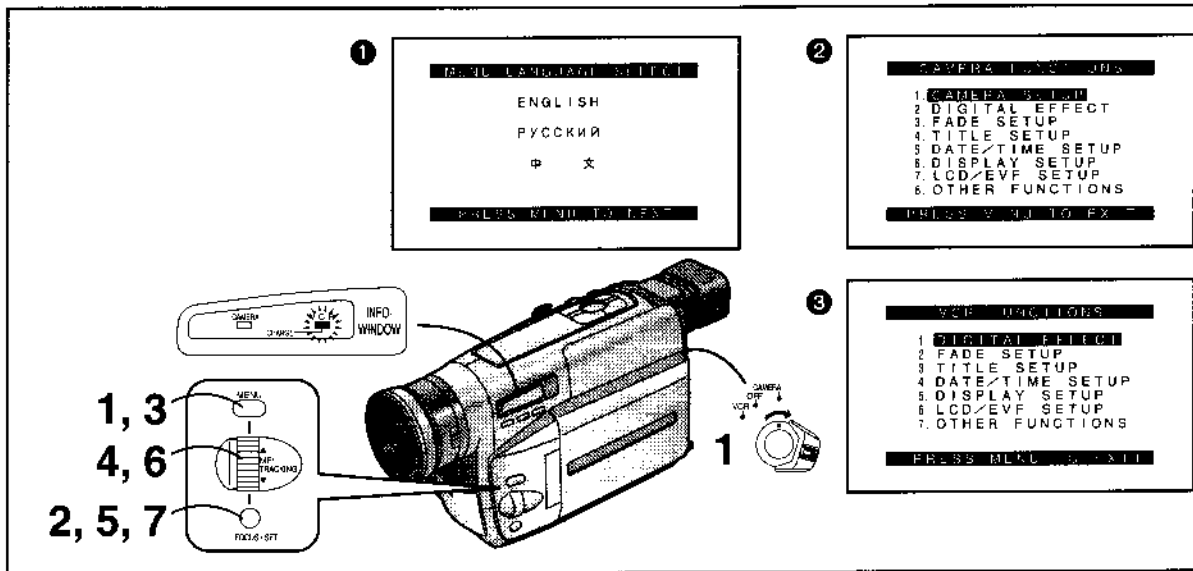


圖 7

使用菜單屏幕

該攝錄影機可在菜單上顯示各種功能的設定情況，以便能簡單地選擇需要的功能和設定值。

- 1 一邊持續按住 [MENU] (菜單) 鈕，一邊將 [CAMERA/OFF/VCR] 開關，設置在 [CAMERA] (攝錄影機) 或 [VCR] (放影機)。
 - 會出現 [MENU LANGUAGE SELECT] (菜單語言選擇) 菜單 ①。
- 2 按 [SET] (設定) 鈕，選擇需要的語言。
 - 即使您選擇了中文，子菜單也會用英語顯示。
- 3 按 [MENU] 鈕。
 - 當您在 [CAMERA] 燈以紅色點亮中按該鈕時，會顯示攝錄影機狀態菜單 ②。
 - 當您在 [VCR] 燈以綠色點亮中按該鈕時，會顯示放影機狀態菜單 ③。
- 4 轉動 [▲▼] 環，選擇您需要進入的子菜單。
 - 轉動 [▲▼] 環，可改變高亮項目。
- 5 按 [SET] 鈕，顯示所選擇的子菜單。
- 6 轉動 [▲▼] 環，選擇需要設定的項目。
- 7 按 [SET] 鈕，將選擇的項目設定為需要的狀態。

退出菜單時

再次按 [MENU] 鈕。

- [DATE/TIME SETUP] (日/時設定) 子菜單 (→ 46) 和 [LCD/EVF SETUP] (LCD/EVF 設定) 子菜單 (→ 38) 的設定方法與其它子菜單的設定方法稍有不同。
- 您可以在播放錄影帶時顯示菜單，但是不能在拍攝時顯示菜單。同樣，當菜單顯示時，您可以開始播放錄影帶，但是如果開始拍攝，所顯示的菜單將消失。
- 請在子菜單操作進行前關閉電源。
- 轉動 [▲▼] 環時，如果轉得太快，選擇的項目可能會中途停止。

ENGLISH

Using the Menus

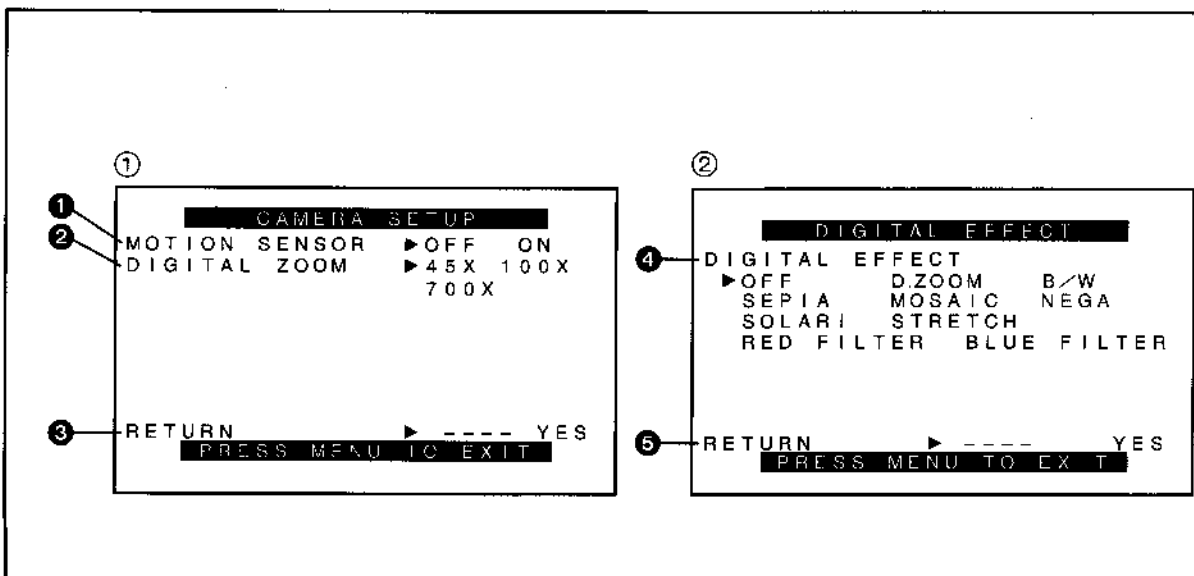
This Movie Camera displays the settings of various functions in menus to make it easy to select the desired functions and settings.

- 1 Set the [CAMERA/OFF/VCR] Switch either to [CAMERA] or [VCR] while keeping the [MENU] Button pressed.
 - The [MENU LANGUAGE SELECT] Menu ① appears.
- 2 Press the [SET] Button to select the desired language.
 - Even if you select Chinese, the sub-menus are displayed in English.
- 3 Press the [MENU] Button.
 - When you press this button while the [CAMERA] Lamp is lit in red, the Camera Mode Menu ② appears. When you press this button while the [VCR] Lamp is lit in green, the VCR Mode Menu ③ appears.
- 4 Turn the [▲▼] Dial to select the desired sub-menu.
 - Turning the [▲▼] Dial changes the highlighted item.
- 5 Press the [SET] Button to display the selected sub-menu.
- 6 Turn the [▲▼] Dial to select the item to be set.
- 7 Press the [SET] Button to set the selected item to the desired mode.

Exiting the Menu

Press the [MENU] Button again.

- The method for making settings on the [DATE/TIME SETUP] Sub-Menu (→ 46) and [LCD/EVF SETUP] Sub-Menu (→ 38) differs slightly from that of other Sub-Menus.
- You can display the menu during playback, but not during recording. Also, it is possible to start playback while the menu is displayed, but if you start recording, the displayed menu disappears.
- Do not turn off the power while performing a menu operation.
- Turn the [▲▼] Dial slowly. If you turn it fastly, selecting the item may stop halfway.



中文

菜單功能

菜單圖示僅為解釋功能所用。實際菜單可能會有不同。

攝錄影機狀態主菜單 [CAMERA FUNCTIONS] (攝像功能)

1. CAMERA SETUP (攝像設定)
2. DIGITAL EFFECT (數碼功能)
3. FADE SETUP (淡化設定)
4. TITLE SETUP (標題設定)
5. DATE/TIME SETUP (日/時設定)
6. DISPLAY SETUP (屏幕顯示設定)
7. LCD/EVF SETUP (LCD/EVF設定) (NV-VZ14/VZ15)
EVF SETUP (EVF設定) (NV-RZ15)
8. OTHER FUNCTIONS (其他功能)

[CAMERA SETUP] (攝像設定) 子菜單 ①

- ① 移動感應器控制拍攝 [MOTION SENSOR] (→ 84)
- ② 數位變焦 [DIGITAL ZOOM] (→ 74)
- ③ 返回主菜單 [RETURN] (返回)
如果您將 [RETURN] (返回) 設置在 [YES]，菜單將返回主菜單。

[DIGITAL EFFECT] (數碼功能) 子菜單 ②

- ④ 數位效果 [DIGITAL EFFECT] (→ 70)
- ⑤ 返回主菜單 [RETURN]

ENGLISH

Menu Functions

The illustrations of the menus are for explanation purposes only and the actual menus may be somewhat different.

Camera Mode Main-Menu [CAMERA FUNCTIONS]

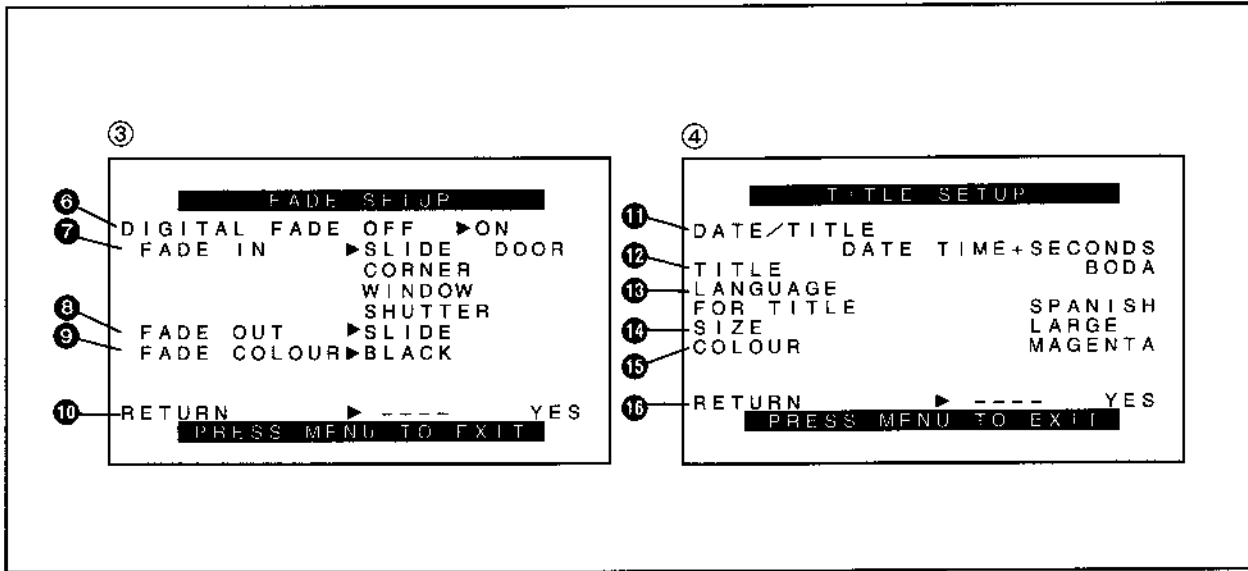
1. CAMERA SETUP
2. DIGITAL EFFECT
3. FADE SETUP
4. TITLE SETUP
5. DATE/TIME SETUP
6. DISPLAY SETUP
7. LCD/EVF SETUP (NV-VZ14/VZ15)
EVF SETUP (NV-RZ15)
8. OTHER FUNCTIONS

[CAMERA SETUP] Sub-Menu ①

- ① Motion-Sensor-Controlled Recording
[MOTION SENSOR] (→ 84)
- ② Digital Zoom [DIGITAL ZOOM] (→ 74)
- ③ Returning to the Main-Menu [RETURN]
If you set [RETURN] to [YES], the menu changes back to the Main-Menu.

[DIGITAL EFFECT] Sub-Menu ②

- ④ Digital Effects [DIGITAL EFFECT] (→ 70)
- ⑤ Returning to the Main-Menu [RETURN]



中文

[FADE SETUP] (淡化設定)子菜單 ③ (→ 76)

- ⑥ 數位淡化關閉/啟動 [DIGITAL FADE]
- ⑦ 淡入 [FADE IN]
- ⑧ 淡出 [FADE OUT]
- ⑨ 數位淡化的色彩 [FADE COLOUR]
- ⑩ 返回主菜單 [RETURN]

[TITLE SETUP] (標題設定)子菜單 ④

- ⑪ 日期/時間/題名指示 [DATE/TITLE] (日期/題名) (→ 48)
- ⑫ 題名 [TITLE] (→ 112)
- ⑬ 題名所用語言 [LANGUAGE FOR TITLE] (→ 112)
- ⑭ 題名的尺寸 [SIZE] (→ 114)
- ⑮ 日期/時間/題名指示的顏色 [COLOUR] (→ 112)
- ⑯ 返回主菜單 [RETURN]

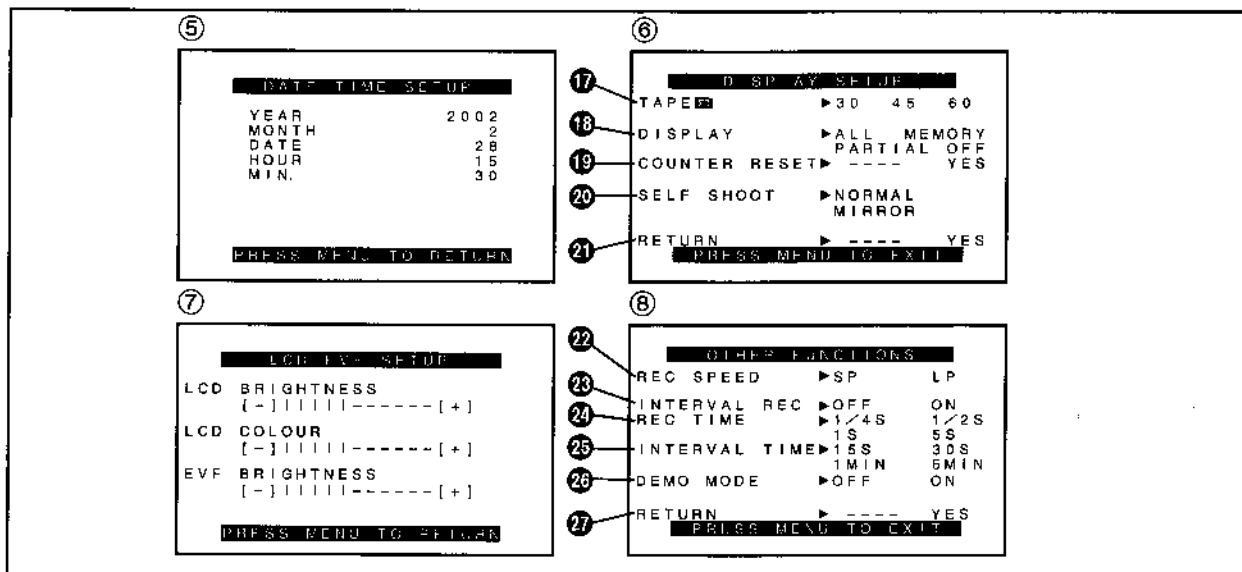
ENGLISH

[FADE SETUP] Sub-Menu ③ (→ 76)

- ⑥ Digital Fade Off/On [DIGITAL FADE]
- ⑦ Fade In [FADE IN]
- ⑧ Fade out [FADE OUT]
- ⑨ Colour of the Digital Fade [FADE COLOUR]
- ⑩ Returning to the Main-Menu [RETURN]

[TITLE SETUP] Sub-Menu ④

- ⑪ Date/Time/Title Indication [DATE/TITLE] (→ 48)
- ⑫ Title [TITLE] (→ 112)
- ⑬ Language of the Title [LANGUAGE FOR TITLE] (→ 112)
- ⑭ Size of the Title [SIZE] (→ 114)
- ⑮ Colour of the Date/Time/Title Indication [COLOUR] (→ 112)
- ⑯ Returning to the Main-Menu [RETURN]



中文

[DATE/TIME SETUP] (日/時設定) 子菜單 ⑤ (→ 46)

[DISPLAY SETUP] (屏幕顯示設定) 子菜單 ⑥

- ① 錄影帶長度 [TAPE 回] (→ 42)
- ② 計時器顯示狀態 [DISPLAY] (→ 124)
- ③ 計時器復原 [COUNTER RESET] (→ 122)
- ④ 自拍 [SELF SHOOT] (→ 108) (僅限於 NV-VZ14/VZ15)
- ⑤ 返回主菜單 [RETURN]

[LCD/EVF SETUP] (LCD/EVF 設定) 子菜單 ⑦ (→ 38)
(液晶顯示監視器調節僅限於型號 NV-VZ14 和 NV-VZ15。)

[OTHER FUNCTIONS] (其他功能) 子菜單 ⑧

- ⑨ 錄影速度狀態 [REC SPEED]
 - 您可在 [OTHER FUNCTIONS] (其他功能) 子菜單的 [REC SPEED] (錄影速度) 上選擇相應的設定，來決定所需的錄影速度 (SP 狀態或 LP 狀態)。
([SP] 意思為標準播放。[LP] 意思為長時間播放。)
- ⑩ 間隔錄影 [INTERVAL REC] (→ 82)
- ⑪ 間隔錄影的錄影時間 [REC TIME] (→ 82)
- ⑫ 間隔錄影的內藏時間 [INTERVAL TIME] (→ 82)
- ⑬ 示範狀態 [DEMO MODE] (→ 144)
- ⑭ 返回主菜單 [RETURN]

ENGLISH

[DATE/TIME SETUP] Sub-Menu ⑤ (→ 46)

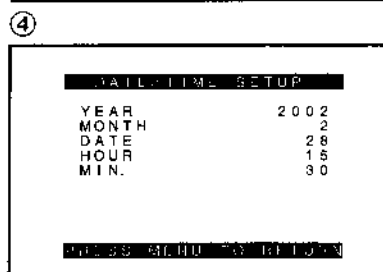
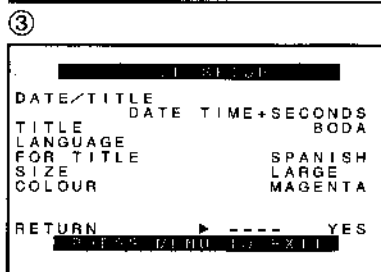
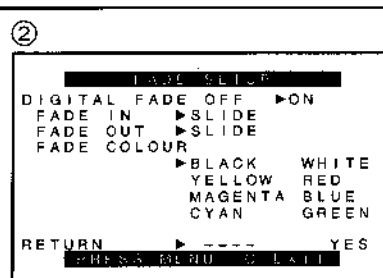
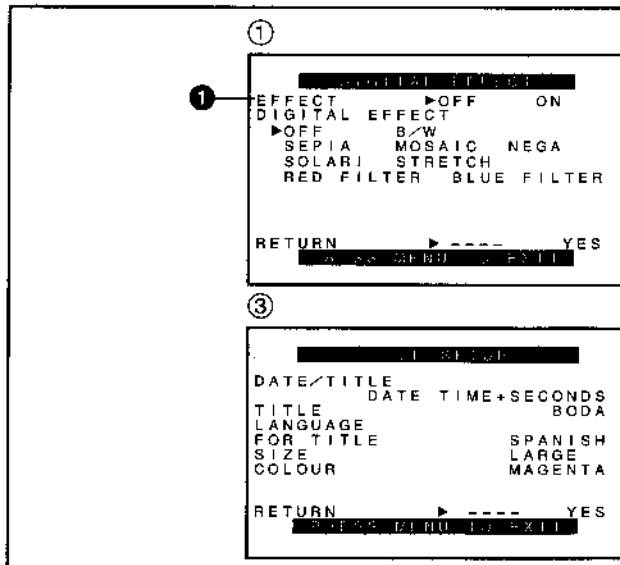
[DISPLAY SETUP] Sub-Menu ⑥

- ① Tape Length [TAPE 回] (→ 42)
- ② Counter Display Mode [DISPLAY] (→ 124)
- ③ Counter Reset [COUNTER RESET] (→ 122)
- ④ Self-Recording [SELF SHOOT] (→ 108)
(NV-VZ14/VZ15 only)
- ⑤ Returning to the Main-Menu [RETURN]

[LCD/EVF SETUP] Sub-Menu ⑦ (→ 38)
(LCD Monitor adjustment is only for NV-VZ14 and NV-VZ15.)

[OTHER FUNCTIONS] Sub-Menu ⑧

- ⑨ Recording Speed Mode [REC SPEED]
 - You can select the desired recording speed (SP Mode or LP Mode) by selecting the corresponding setting for [REC SPEED] on the [OTHER FUNCTIONS] Sub-Menu.
([SP] means Standard Play. [LP] means Long Play.)
- ⑩ Interval Recording [INTERVAL REC] (→ 82)
- ⑪ Recording Time of Interval Recording [REC TIME] (→ 82)
- ⑫ Internal Time of Interval Recording [INTERVAL TIME] (→ 82)
- ⑬ Demonstration Mode [DEMO MODE] (→ 144)
- ⑭ Returning to the Main-Menu [RETURN]



中文

攝影機狀態主菜單[VCR FUNCTIONS] (录像功能)

1. DIGITAL EFFECT (數碼功能)
2. FADE SETUP (淡化設定)
3. TITLE SETUP (標題設定)
4. DATE/TIME SETUP (日/時設定)
5. DISPLAY SETUP (屏幕顯示設定)
6. LCD/EVF SETUP (LCD/EVF 設定) (NV-VZ14/VZ15)
EVF SETUP (EVF 設定) (NV-RZ15)
7. OTHER FUNCTIONS (其他功能)

[DIGITAL EFFECT] (數碼功能) 子菜單 ① (→ 118)

① 數位效果開/關 [EFFECT] (→ 118)

[DIGITAL EFFECT] (數碼功能) 子菜單中的其它所有項目與 [CAMERA FUNCTIONS] (攝像功能) 主菜單上 [DIGITAL EFFECT] (數碼功能) 子菜單中的對應項目相同。

[FADE SETUP] (淡化設定) 子菜單 ② (→ 120)

[FADE SETUP] (淡化設定) 子菜單中的所有項目與 [CAMERA FUNCTIONS] (攝像功能) 主菜單上 [FADE SETUP] (淡化設定) 子菜單中的對應項目相同。

[TITLE SETUP] (標題設定) 子菜單 ③ (→ 48·112)

[TITLE SETUP] (標題設定) 子菜單中的所有項目與 [CAMERA FUNCTIONS] (攝像功能) 主菜單上 [TITLE SETUP] (標題設定) 子菜單中的對應項目相同。

[DATE/TIME SETUP] (日/時設定) 子菜單 ④ (→ 46)

ENGLISH

VCR Mode Main-Menu [VCR FUNCTIONS]

1. DIGITAL EFFECT
2. FADE SETUP
3. TITLE SETUP
4. DATE/TIME SETUP
5. DISPLAY SETUP
6. LCD/EVF SETUP (NV-VZ14/VZ15)
EVF SETUP (NV-RZ15)
7. OTHER FUNCTIONS

[DIGITAL EFFECT] Sub-Menu ① (→ 118)

① Digital Effect On/Off [EFFECT] (→ 118)

All other items on the [DIGITAL EFFECT] Sub-Menu are the same as those on the [DIGITAL EFFECT] Sub-Menu of the [CAMERA FUNCTIONS] Main-Menu.

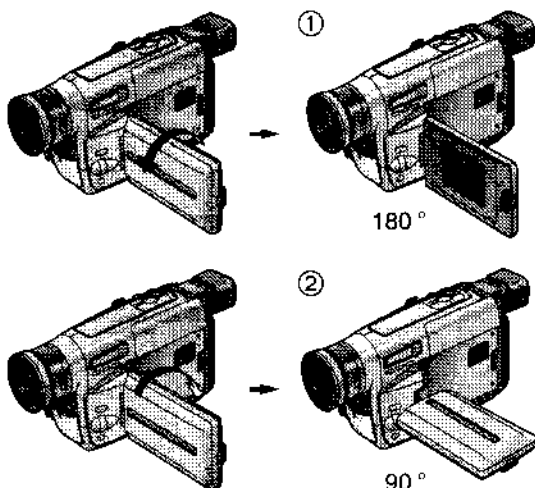
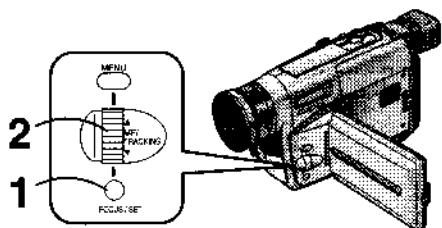
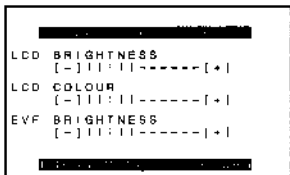
[FADE SETUP] Sub-Menu ② (→ 120)

All items on the [FADE SETUP] Sub-Menu are the same as those on the [FADE SETUP] Sub-Menu of the [CAMERA FUNCTIONS] Main-Menu.

[TITLE SETUP] Sub-Menu ③ (→ 48, 112)

All items on the [TITLE SETUP] Sub-Menu are the same as those on the [TITLE SETUP] Sub-Menu of the [CAMERA FUNCTIONS] Main-Menu.

[DATE/TIME SETUP] Sub-Menu ④ (→ 46)



中文

調節液晶顯示監視器/電子尋像器的亮度和色彩電平

(液晶顯示監視器調節僅限於型號NV-VZ14和NV-VZ15。)

如果您在[VCR FUNCTIONS](录像功能)主菜單或[CAMERA FUNCTIONS](攝像功能)主菜單中選擇[LCD/EVF SETUP](LCD/EVF設定)子菜單或[EVF SETUP](EVF設定)子菜單，將顯示下列項目。

液晶顯示監視器亮度 [LCD BRIGHTNESS]

可調節液晶顯示屏幕上畫面之亮度。

液晶顯示監視器色彩電平 [LCD COLOUR]

可調節液晶顯示屏幕上畫面之色彩濃度。

電子尋像器亮度 [EVF BRIGHTNESS]

可調節電子尋像器中畫面之亮度。

1 按[SET](設定)鈕，選擇您希望調節的項目。

2 轉動[▲▼]環，增加或減少條棒指示的垂直條棒。
 條的顯示被分成 11 個等級。被顯示的垂直棒越多，圖像的亮度或色彩度越強。

退出菜單時

按[MENU]鈕兩次。

● 以上這些調節對實際拍攝的圖像沒有任何影響。

■ 調節液晶顯示監視器的角度

液晶顯示監視器從其標準的垂直位置，最多能向上旋轉180°^①，或向下旋轉90°^②。如果超出此範圍用力旋轉液晶顯示監視器，可能會嚴重損壞本攝錄影機。

ENGLISH

Adjusting the Brightness and Colour Level of the LCD Monitor/Finder (LCD Monitor adjustment is only for NV-VZ14/VZ15.)

If you select the [LCD/EVF SETUP] or [EVF SETUP] Sub-Menu of the [VCR FUNCTIONS] or the [CAMERA FUNCTIONS] Main-Menu, the following items are displayed.

LCD Brightness [LCD BRIGHTNESS]

To adjust the brightness of the picture on the LCD screen.

LCD Colour Level [LCD COLOUR]

To adjust the colour saturation of the picture on the LCD screen.

Finder Brightness [EVF BRIGHTNESS]

To adjust the brightness of the picture in the Finder.

1 Press the [SET] Button to select the item that you want to adjust.

2 Turn the [▲▼] Dial to Increase or decrease the vertical bars of the Bar Indication.
 The Bar Indication is divided into 11 steps. The more vertical bars are shown, the stronger the brightness or colour saturation is.

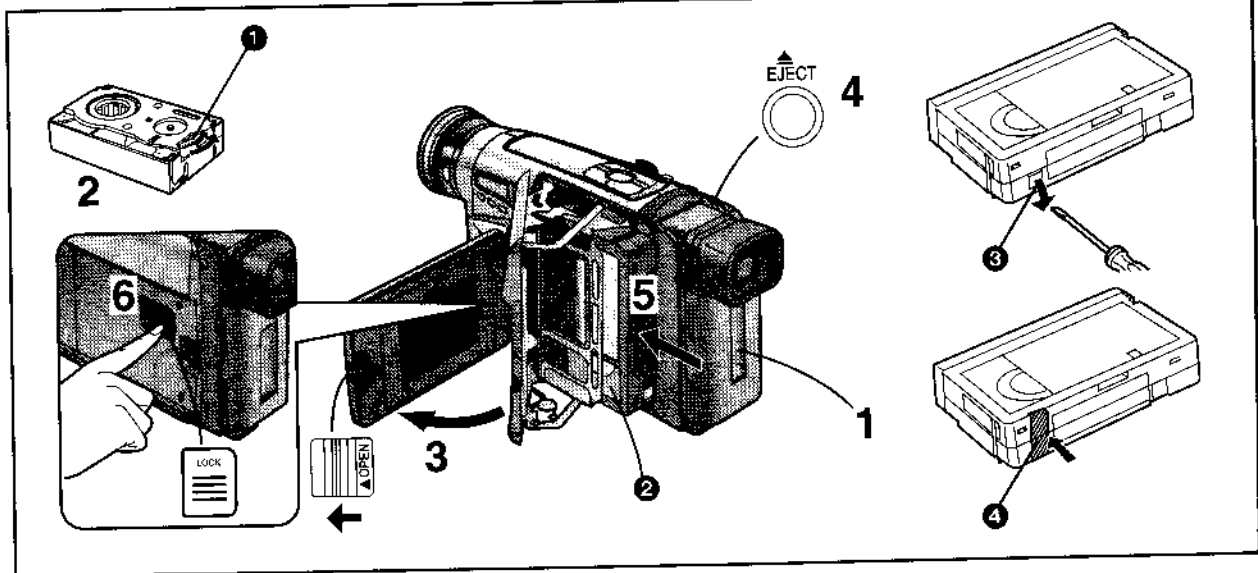
Exiting the Menu

Press the [MENU] Button twice.

● These adjustments have no influence on the actual picture recorded.

■ Adjusting the Angle of the LCD Monitor

The LCD Monitor rotates upward a maximum of 180°^① and downward a maximum of 90°^② from its normal vertical position. Trying to forcefully rotate it beyond this range could seriously damage the Movie Camera.



中文

插入/取出錄影帶時

- 1 連接交流轉接器或裝上充好電的電池。(→ 18, 20)
- 2 撥動牙輪①，捲緊錄影帶。
- 3 (僅限於 NV-VZ14/VZ15)
向左滑動[▲OPEN]桿，同時如箭頭所示，將液晶顯示監視器打開約 90°。
● 須使液晶顯示監視器保持垂直位置，這樣，當錄影帶室蓋打開時，便不會碰觸液晶顯示監視器。
- 4 按[▲EJECT] (排出) 鈕。
- 5 插入錄影帶，使錄影帶的窗口②向外，將其插到底。
- 6 關閉錄影帶室蓋，然後按[LOCK] 鈕。

- 如果安裝了電池或連接了交流轉接器，不用打開攝影機即可插入或取出錄影帶。
- 如果插入錄影帶的防抹保險片已被除去，[EJECT] 指示將閃爍。
- 當您插入磁帶時，將聽見磁帶被旋緊的噪音，當您關閉磁帶除音時，也會聽見磁帶被倒轉的噪音。然而，這並非功能故障。

■ 防止意外抹消拍攝內容時

- 在以前拍攝的錄影帶上進行攝影時，將抹消現有的場景和聲音。
- 為了防止重要的拍攝內容被意外抹消，請用螺絲刀弄掉磁帶上的防抹保險片③ (某些磁帶具備滑動保險片)。
- 為了用這樣的磁帶再次進行錄影，請用雙層膠帶紙④，平靠地蓋住防抹保險片所在小孔。

ENGLISH

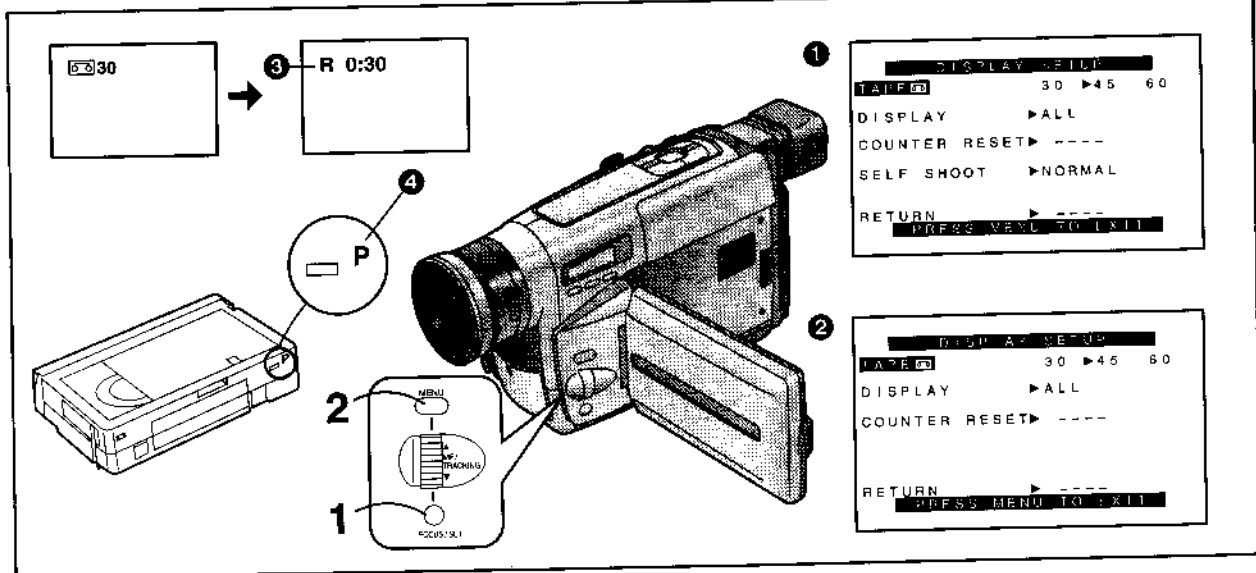
Inserting/Ejecting the Cassette

- 1 Connect the AC Adaptor or attach a charged Battery. (→ 18, 20)
- 2 Turn the cog wheel ① to tighten the tape.
- 3 (NV-VZ14/VZ15 only)
Slide the [▲OPEN] Lever to the left and simultaneously open the LCD Monitor in the direction of the arrow approximately 90°.
● Be sure to keep the LCD Monitor in its vertical position, so that the Cassette Compartment Cover, when it opens, does not hit the LCD Monitor.
- 4 Press the [▲EJECT] Button.
- 5 Insert the cassette with the cassette window ② facing outward and push it all the way in.
- 6 Close the Cassette Compartment by pressing the [LOCK] Button.

- If the AC Adaptor or Battery is used to supply power, it is possible to insert or eject the cassette without turning on the Movie Camera.
- If a cassette with broken out erasure prevention tab is inserted, the [EJECT] Indication flashes.
- You will hear noise of tightening the tape when you insert the cassette, and noise of rewinding the tape when you close the cassette compartment. However, this is not a malfunction.

■ Preventing Accidental Erasure of Recordings

- Recording on a previously recorded cassette erases the existing scenes and sound.
- To protect important recordings against accidental erasure, use a screwdriver to break out the tab ③ on the cassette (some cassettes have sliding-type tabs).
- To be able to record again on a protected cassette, firmly cover the hole where the tab was with two layers of adhesive tape ④.



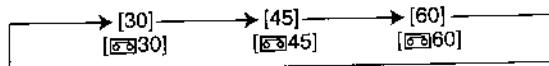
設定正確的磁帶長度時

為了確保拍攝和放映中顯示的磁帶剩餘時間保持正確，需要設定磁帶長度，使其與插入的錄影帶一致。

選擇 [DISPLAY SETUP] (屏幕顯示設定) 子菜單上的 [TAPE] 之後... (→ 26)

1 按 [SET] (設定) 鈕，選擇正確的磁帶長度。

- 被選中的磁帶長度將以標記 [▶] 加以表示。
- 磁帶長度指示將依下列順序改變：



2 按 [MENU] (菜單) 鈕退出菜單。

- 攝影機狀態
- 放映機狀態

確認磁帶剩餘時間時

拍攝和放映中，會自動顯示磁帶剩餘時間指示^③，所以，您可隨時了解錄影帶上還剩餘多少時間。然而，為了確保磁帶剩餘時間指示的正確性，須在攝影機上正確地設定所用錄影帶的磁帶長度。

- 當開始拍攝或放映時，磁帶長度指示會消失。且在計算磁帶剩餘時間中，[R] 指示^③將在長度指示位置上閃爍。幾秒鐘後，將出現磁帶剩餘時間指示。([R] 意思為剩餘。)
- 當磁帶剩餘時間少於 2 分鐘時，[R] 指示和磁帶剩餘時間指示將開始閃爍。

當使用帶有 [P] 標記^④的錄影帶，或其他特殊類型的錄影帶時，磁帶剩餘時間指示可能不精確。

ENGLISH

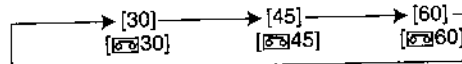
Selecting the Correct Tape Length

To ensure that the Remaining Tape Time Indication displayed during recording and playback is correct, you need to set the tape length that matches that of the inserted cassette.

After selecting [TAPE] on the [DISPLAY SETUP] Sub-Menu... (→ 26)

1 Press the [SET] Button to select the correct tape length.

- The selected tape length is marked with the [▶] Mark.
- The Tape Length Indications change in the following order:



2 Press the [MENU] Button to exit the menu.

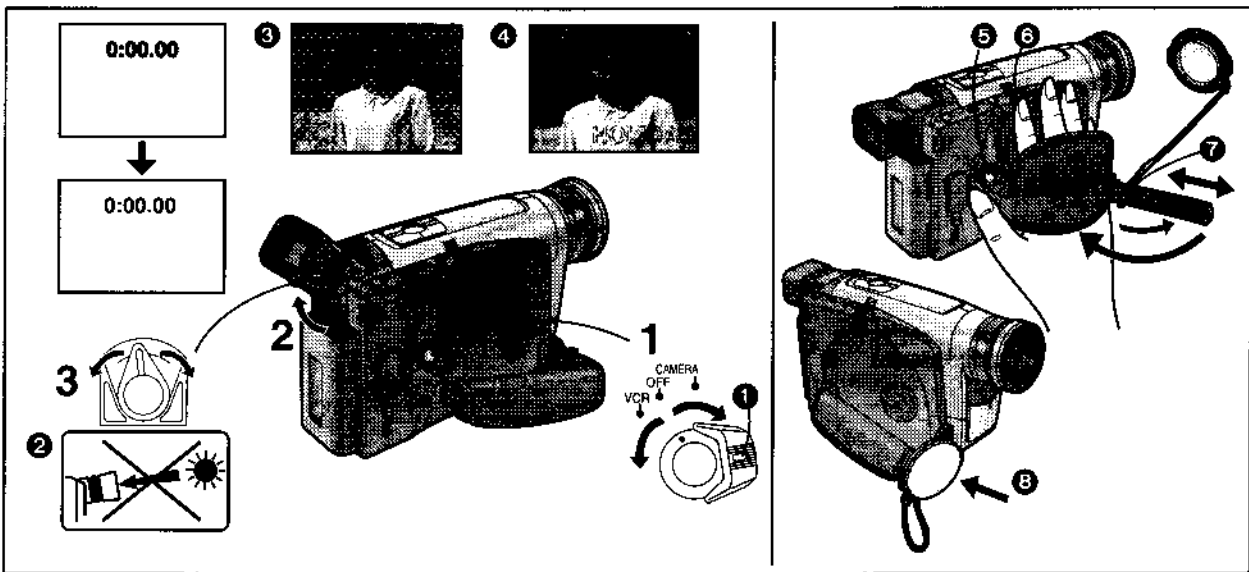
- 1: Camera Mode
- 2: VCR Mode

Confirming the Remaining Tape Time

During recording and playback, the Remaining Tape Time Indication^③ is automatically displayed, so you always know how much time you have left on the cassette. However, to ensure correct display of the remaining tape time, the tape length of the cassette being used must be set correctly on the Movie Camera.

- When recording or playback starts, the Tape Length Indication disappears, and in its place the [R] Indication^③ flashes while the remaining tape time is being calculated. A few seconds later, the Remaining Tape Time Indication appears. ([R] means Remaining.)
- When the remaining tape time is less than 2 minutes, the [R] Indication and the Remaining Tape Time Indication start to flash.

When you use a cassette bearing the [P] mark^④ or other special types of cassettes, the Remaining Tape Time Indication may not be very precise.



中文

電子尋像器調整

使用電子尋像器之前，請將其調節至您的視力，以使電子尋像器中的指示清晰易辨。

- 1 將 [CAMERA/OFF/VCR] 開關設置在 [CAMERA] (攝錄影機) 或 [VCR] (放影機)。
 - 一邊按住鈕 ①，一邊轉動開關。
- 2 如有必要，可將電子尋像器向上傾斜，調節它的角度。
- 3 轉動目鏡校正桿進行調節。

絕對不要將攝錄影機的電子尋像器或鏡頭直接瞄準太陽，否則可能會損壞本機的內部零件。②

如果強光或其他強烈光線進入電子尋像器，電子尋像器的屏幕上將會出現閃動的雜訊。③ 如果您避開光線，這種現象將在幾分鐘內消失，而且，這不會影響所拍攝的圖像。

當電子尋像器中顯示反差強烈的物體或顯示菜單後，電子尋像器的畫面上仍將暫時殘留上述圖像的影子。④ 然而，這並不是故障，也不會影響所拍攝的圖像。

扣抓皮帶調整

調整扣抓皮帶的長度，使得大拇指正好按到拍攝開始/停止鈕 ⑤，食指或中指正好按到 [W/T] 變焦桿 ⑥。

安裝鏡頭蓋

將鏡頭蓋環安裝在扣抓皮帶上。⑦ 您可將鏡頭蓋安裝在鏡頭蓋扣環夾上。⑧

ENGLISH

Adjusting the Finder

Before using the Finder, adjust it to your eyesight so that the indications in the Finder are clear and easy to read.

- 1 Set the [CAMERA/OFF/VCR] Switch to [CAMERA] or [VCR].
 - Turn the switch while pressing the button ①.
- 2 If necessary, adjust the angle of the Finder by tilting it upward.
- 3 Adjust by turning the Eyepiece Corrector Lever.

Never aim the Movie Camera with its Finder or Lens directly at the sun; this could damage internal parts of the unit. ②

If sunlight or other strong light enters the Finder, sparkling noise occurs on the Finder screen. ③ If you block off the light, this phenomenon disappears after a few minutes and does not affect the recorded picture.

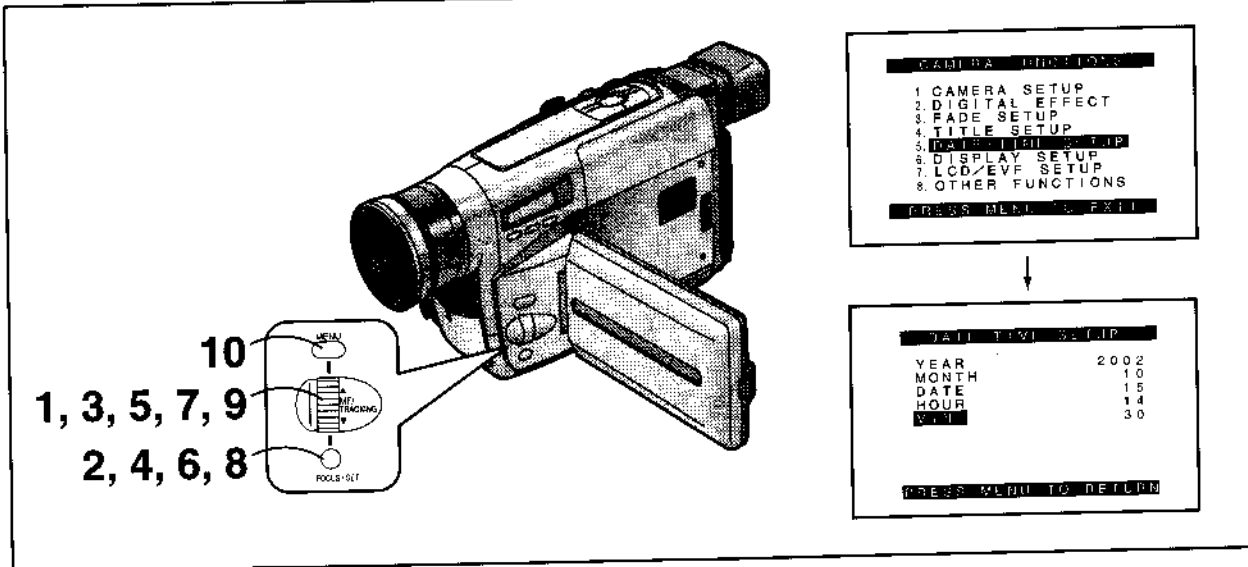
If a subject with strong contrast or a menu is displayed in the Finder, a ghost image may remain temporarily. ④ However, this is not a malfunction and does not affect the recorded picture.

Adjusting the Grip Belt

Adjust the length of the Grip Belt so that you can easily press the Recording Start/Stop Button ⑤ with your thumb and push the [W/T] Zoom Lever ⑥ with your index or middle finger.

Attaching the Lens Cap

Attach the shorter loop of the Lens Cap Cord to the Grip Belt. ⑦ You can attach the Lens Cap to the Lens Cap Holder on the Grip Belt ⑧.



中文

設定日期和時間

如果您在 [CAMERA FUNCTIONS] (攝像功能) 主菜單中選擇 [DATE/TIME SETUP] (日/時設定) 子菜單，將出現上圖所示的菜單。

轉錄之前，請設定正確的日期和時間。

例如：將時鐘設定為2002年10月15日14:30時。

- 1 轉動 [▲▼] 環，設定至 [2002]。
 - 年數將以下列順序改變：
...1980...1981...2000...2079...1980...
- 2 按 [SET] (設定) 鈕，選擇 [MONTH] (月)。
- 3 轉動 [▲▼] 環，設定至 [10]。
- 4 按 [SET] 鈕，選擇 [DATE] (日)。
- 5 轉動 [▲▼] 環，設定至 [15]。
- 6 按 [SET] 鈕，選擇 [HOUR] (小時)。
- 7 轉動 [▲▼] 環，設定至 [14]。
- 8 按 [SET] 鈕，選擇 [MIN.] (分鐘)。
- 9 轉動 [▲▼] 環，設定至 [30]。
- 10 按 [MENU] (菜單) 鈕，結束日期和時間設定。
 - 將從 [00] 秒開始進行時鐘操作。
 - 再按一次該按鈕，使菜單消失。

• 時鐘系統採用24小時制。

ENGLISH

Setting the Date and Time

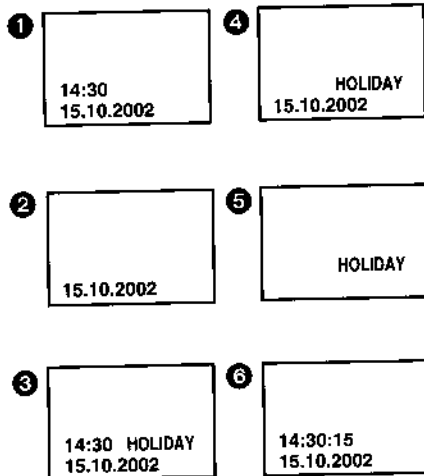
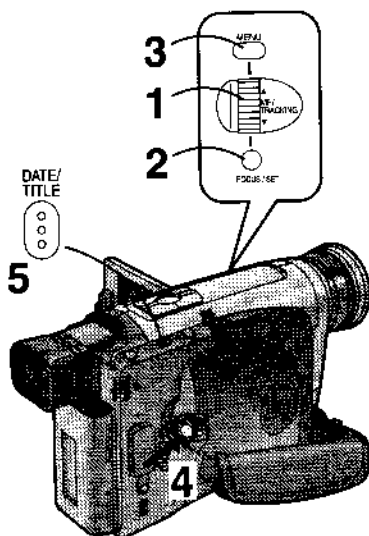
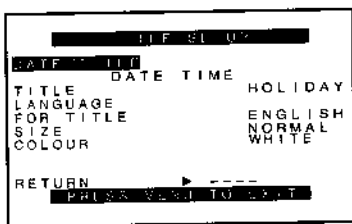
If you select the [DATE/TIME SETUP] Sub-Menu of the [CAMERA FUNCTIONS] Main-Menu, the menu shown above appears.

Set the correct date and time before recording.

For example: To set the clock to 15th October 2002, 14:30.

- 1 Turn the [▲▼] Dial to set to [2002].
 - The years change in the following order:
...1980...1981...2000...2079...1980...
- 2 Press the [SET] Button to select [MONTH].
- 3 Turn the [▲▼] Dial to set to [10].
- 4 Press the [SET] Button to select [DATE].
- 5 Turn the [▲▼] Dial to set to [15].
- 6 Press the [SET] Button to select [HOUR].
- 7 Turn the [▲▼] Dial to set to [14].
- 8 Press the [SET] Button to select [MIN.].
- 9 Turn the [▲▼] Dial to set to [30].
- 10 Press the [MENU] Button to finish the date and time setting.
 - The operation of the clock starts from [00] seconds.
 - Pressing the button one more time makes the menu disappear.

• The clock employs the 24-hour system.



中文

在畫面中添加日期/時間/題名進行拍攝時

在顯示出[TITLE SETUP](標題設定)子菜單後... (→ 26)

1 轉動[▲▼]環，選擇[DATE/TITLE](日期/題名)。

2 按[SET](設定)鈕，選擇需要的指示。

- 指示將依 ① ~ ⑥ 的順序進行改變。

- ① [DATE TIME](日期時間) → ② [DATE](日期) →
- ③ [DATE TIME TITLE](日期時間題名) →
- ④ [DATE TITLE](日期題名) →
- ⑤ [TITLE](題名) →
- ⑥ [DATE TIME+SECONDS](日期時間+秒鐘) →

3 按[MENU](菜單)鈕，退出菜單。

- 將出現被選擇的日期/時間/題名指示。

4 按拍攝開始/停止鈕，開始拍攝。

■ 刪除日期/時間/題名指示時

5 在拍攝或攝錄影機處於拍攝暫停狀態中，按[DATE/TITLE]鈕，使日期/時間/題名指示消失。

- 關閉攝錄影機，然後重新打開，將不再顯示以前選擇的日期/時間/題名指示。使其再次出現時，請按[DATE/TITLE]鈕一次。
- 在取出電池或拔下交流轉接器之前，請務必先將攝錄影機關閉。在攝錄影機打開時斷開電源供應，將會抹去儲存在記憶中的日期/時間/題名指示 (→ 112)。

ENGLISH

Recording with the Date/Time/Title Superimposed in the Picture

After displaying the [TITLE SETUP] Sub-Menu... (→ 26)

1 Turn the [▲▼] Dial to select [DATE/TITLE].

2 Press the [SET] Button to select the desired Indication.

- The indications change in the order ① to ⑥.

- ① Date and Time → ② Date →
- ③ Date, Time and Title → ④ Date and Title →
- ⑤ Title → ⑥ Date and Time with seconds →

3 Press the [MENU] Button to exit the menu.

- The selected Date/Time/Title Indication appears.

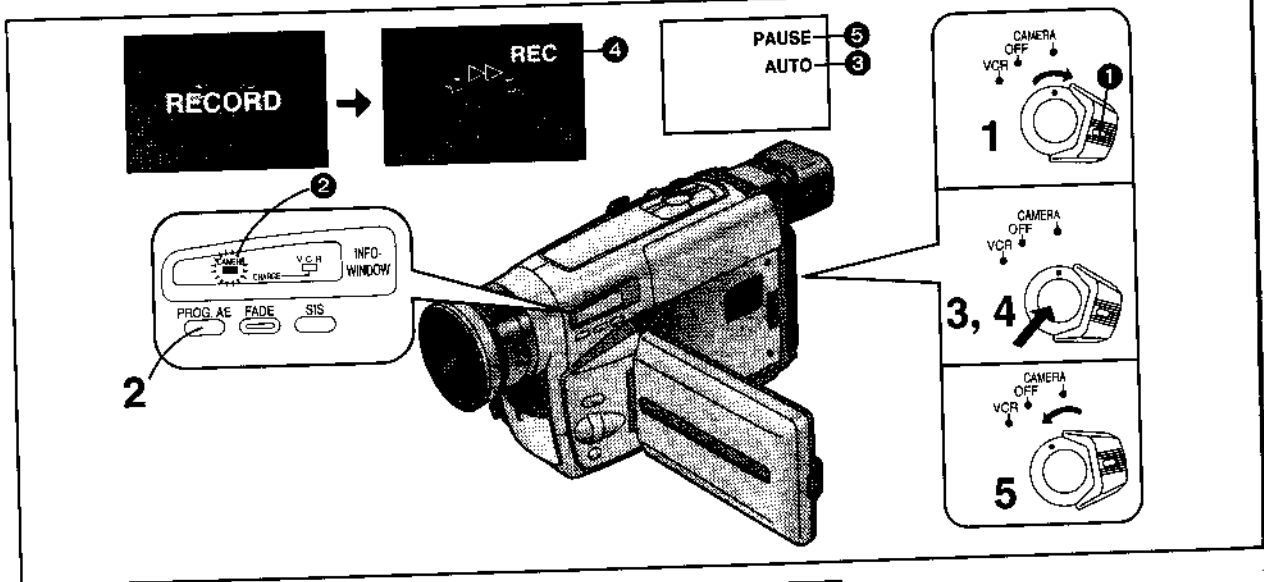
4 Press the Recording Start/Stop Button to start recording.

■ Deleting the Date/Time/Title Indication

5 During recording or when the Movie Camera is in the Recording Pause Mode, press the [DATE/TITLE] Button to make the Date/Time/Title Indication disappear.

- After turning the Movie Camera off and then on again, the previously selected Date/Time/Title Indication is no longer displayed. To make it appear again, press the [DATE/TITLE] Button once.

- Be sure to turn the Movie Camera off before removing the Battery or disconnecting the AC Adaptor. Disconnecting the power supply while the Movie Camera is on erases the Date/Time/Title Indication (→ 112) stored in memory.



中文

用全自動狀態進行拍攝時

全自動狀態會自動調整白色平衡和聚焦。然而，如您喜歡，也可手動調整其一或兩個鈕。(→ 90, 94)

在弱光環境下拍攝時，畫面可能會產生雜訊，或清晰度不足。此時，建議您使用 IR/影像直流燈(選購品)等，將場景照亮。

- 1 將 [CAMERA/OFF/VCR] 開關設置在 [CAMERA]。
 - 一邊按住鈕 ①，一邊轉動開關。
 - [CAMERA] 指示燈 ② 亮起。
- 2 重複按 [PROG. AE] (程序 AE) 鈕，直至出現 [AUTO] (自動) 指示 ③。
 - 出廠時的最初設定為 [AUTO]。
- 3 按拍攝開始/停止鈕，開始拍攝。
 - 拍攝開始，並且將出現 [▷▷] 和 [REC] 指示 ④。([REC] 意思為拍攝。)
- 4 暫停拍攝時：
 - 再次按拍攝開始/停止鈕。
 - 會出現 [PAUSE] (暫停) 指示 ⑤。
- 5 結束拍攝時：
 - 將 [CAMERA/OFF/VCR] 開關設置在 [OFF]。

• 如果您讓攝錄影機處於拍攝暫停狀態超過 6 分鐘時，本機將自動關閉，以保護磁帶，並節省電池能源。從此狀態恢復拍攝時，請將 [CAMERA/OFF/VCR] 開關設置在 [OFF] (關)，然後重新將其設置在 [CAMERA] (攝錄影機) 狀態。

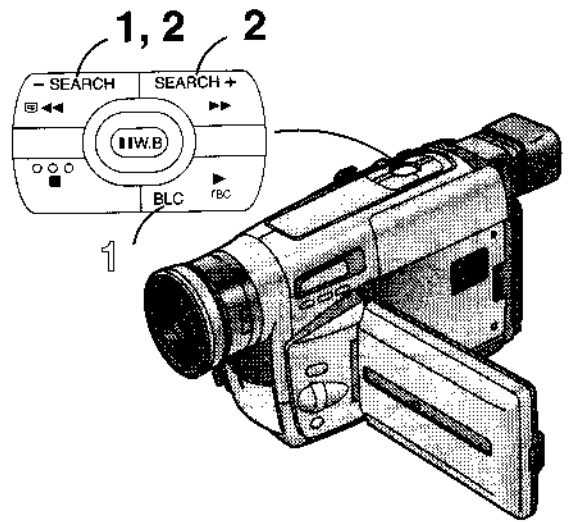
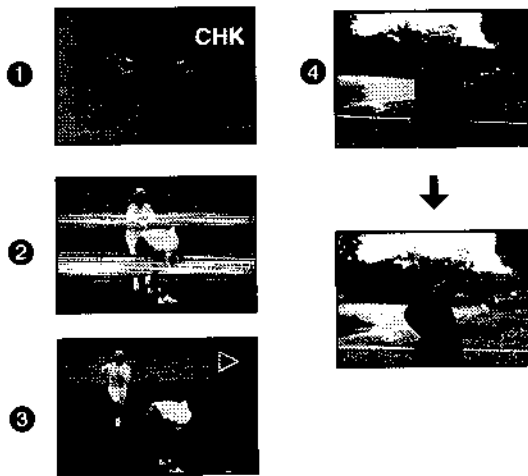
ENGLISH

Recording in the Full Auto Mode

The Full Auto Mode adjusts the white balance and focus automatically. However, if you want, you can also adjust either one or both of them manually. (→ 90, 94)
When recording in a dimly lit location, the picture may become noisy and less sharp, so we recommend that you use the IR/ Video DC Light (optional), etc. to brighten up the scene.

- 1 Set the [CAMERA/OFF/VCR] Switch to [CAMERA].
 - Turn the switch while pressing the button ①.
 - The [CAMERA] Lamp ② lights.
- 2 Press the [PROG. AE] Button repeatedly until the [AUTO] Indication ③ appears.
 - The initial setting is [AUTO].
- 3 Press the Recording Start/Stop Button to start recording.
 - Recording starts and the [▷▷] Indication and the [REC] Indication ④ appear. ([REC] means Recording.)
- 4 To pause recording:
 - Press the Recording Start/Stop Button again.
 - The [PAUSE] Indication ⑤ appears.
- 5 To finish recording:
 - Set the [CAMERA/OFF/VCR] Switch to [OFF].

• If you leave the Movie Camera in the Recording Pause Mode for more than 6 minutes, it automatically switches off to protect the tape and to conserve battery power. To resume recording from this condition, set the [CAMERA/OFF/VCR] Switch to [OFF] and then to [CAMERA] again.



中文

檢查錄過場景的結尾時 (拍攝檢查功能)

可在拍攝暫停狀態下，播放上次拍攝的最後幾秒鐘場景。

- 1 在拍攝暫停狀態下短暫地按下 [CHK] 鈕。
 - 將出現 [CHK] 指示 ❶。([CHK] 意思為檢查。) 之後，攝錄影機將恢復拍攝暫停狀態，準備拍攝下一個場景。
 - 當從轉錄暫停切換至上次轉錄的場景時，可能會出現雜訊條紋。

在拍攝暫停中觀看已錄場景 (攝錄影機尋影功能)

該功能非常易於尋找磁帶上以前所錄場景之處 (您想要開始錄製新場景處)。另外，該功能還能確保場景與場景之間的平滑接錄，而毫無畫面失真。

- 2 在拍攝暫停狀態下持續按住 [-SEARCH] 鈕 (或 [SEARCH+] 鈕)。

- ❷: 反向尋影
- ❸: 正向尋影

逆光場景的拍攝 (逆光狀態)

可將上圖像上逆光拍攝的目標物亮度太暗。
在某些狀態下，該功能可能無法正常工作。

- 1 持續按住逆光鈕 [BLC]。
 - 圖像會整體變亮。 ❹

ENGLISH

Checking the End of a Recorded Scene (Recording Check Function)

To play back the final few seconds of the last recorded scene in the Recording Pause Mode.

- 1 Press the [CHK] Button briefly in the Recording Pause Mode.
 - The [CHK] Indication ❶ appears. ([CHK] means Check.) After that, the Movie Camera returns to the Recording Pause Mode and is ready for recording the next scene.
 - The noise bars may appear when switching from Recording Pause to the last recorded scene.

Viewing Recorded Scenes During Recording Pause (Camera Search Function)

This function makes it easy to search for a point in a previously recorded scene on cassette from which you want to start recording a new scene. In addition, it ensures smooth scene-to-scene transitions free from picture distortion.

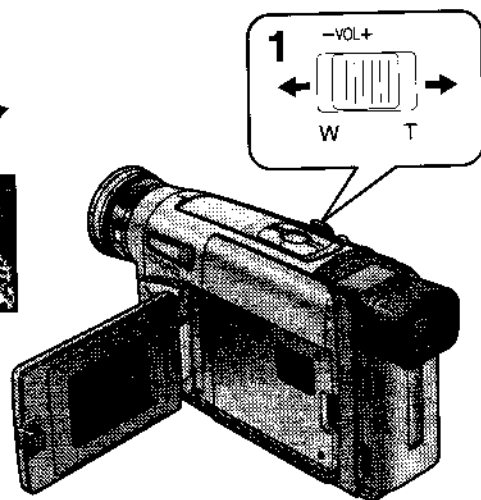
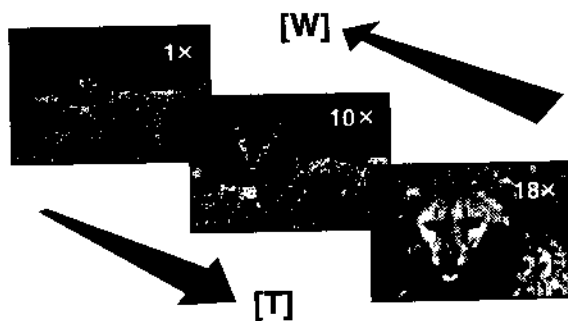
- 2 Keep the [-SEARCH] Button (or the [SEARCH+] Button) pressed in the Recording Pause Mode.

- ❷: Reverse Search
- ❸: Forward Search

Recording Backlit Scenes (Backlight Mode)

To prevent the backlit subject from being recorded very dark. Under some conditions, this function may not work properly.

- 1 Keep the Backlight Button [BLC] pressed.
 - The picture brightens up as a whole. ❹



中文

ENGLISH

拉近/拉遠變焦

拍攝拉近的目標物和廣角鏡頭，可為您的影像增添特殊效果。

- 1 拍攝更廣的視角(拉遠)時：
朝[W]方向按[W/T]變焦桿。
放大目標物(拉近)時：
朝[T]方向按[W/T]變焦桿。
●變焦放大率指示將出現幾秒鐘。

- 越將[W/T]變焦桿推向[W]或[T]之處，其變焦速度也就越快。
- 在最大望遠設定(當您已經拉近)時，只能在鏡頭和目標物之間的距離大於1.8米時才能進行精確聚焦。

小目標物的超拉近鏡頭拍攝(微距拉近功能)

當變焦放大率為1倍時，在鏡頭和目標物之間，攝錄影機能夠對目標物進行聚焦的距離將縮短為約5毫米。這樣便可拍攝昆蟲之類的極小目標物。

- 當利用微距拉近功能時，建議您使用IR/Video DC Light (IR/影像直流燈)(選購品)等，而非0 Lux夜景功能，以使場景更亮。

Zooming In/Out

Recording close-ups of your subjects and recording wide-angle shots add special effects to your videos.

- 1 To record a wider view (Zooming-out):
Push the [W/T] Zoom Lever toward [W].
To enlarge your subject (Zooming-in):
Push the [W/T] Zoom Lever toward [T].

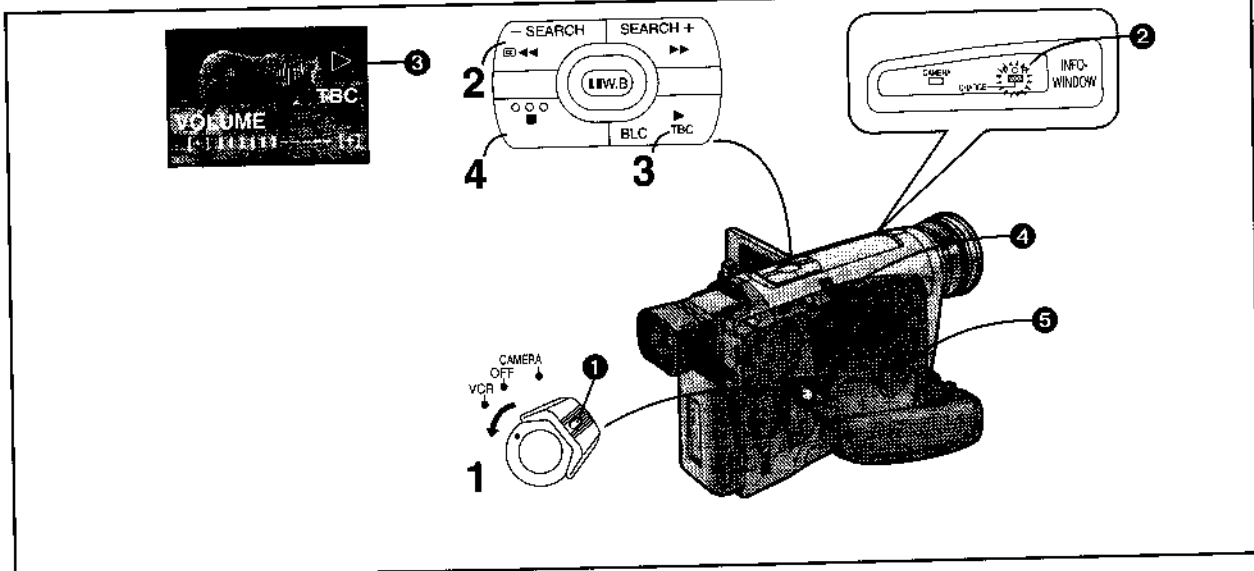
- The Zoom Magnification Indication appears for a few seconds.

- The further you push the [W/T] Zoom Lever toward [W] or [T], the faster the zooming speed becomes.
- In the maximum telephoto setting (when you have zoomed in), precise focusing is only possible for subjects that are more than 1.8 m from the lens.

Recording Extra Close-up Shots of Small Subjects (Macro Close-up Function)

When the zoom magnification is 1×, the Movie Camera can focus on subjects down to a distance of approximately 5 mm between lens and subject. This allows recording very small subjects such as insects.

- When using the Macro Close-up Function, we recommend that you use the IR/Video DC Light (optional), etc. rather than the 0 Lux Night View Function to brighten up the scene.



中文

放影

在攝錄影機上觀看放影時

您可觀看已拍攝場景的播放。

1 將 [CAMERA/OFF/VCR] 開關設置在 [VCR] (錄影機)。

- 一邊按住鈕 ①，一邊轉動開關。
- [VCR] 指示燈 ② 亮起。

2 按 [◀◀] 鈕。

- 磁帶開始倒帶。當磁帶到頭時，會自動停止倒帶。

3 按 [▶] (放影) 鈕。

- 開始放影，且將出現 [▷] 指示 ③。
- 當錄影帶到達結尾時，將自動倒帶至頭。

■ 停止放影時

4 按 [■] 鈕。

- 放影中，絕對勿拔掉 AC 適配器。否則，可能會損壞攝錄影機或錄影帶。

■ 調節音量大小 (僅限於 NV-VZ14/VZ15)

將 [-VOL+] 桿 ④ 推向 [+]，可增大音量，推向 [-]，可減少音量。調節時將出現 [VOLUME] (音量) 指示，同時垂直條的個數亦會隨您的調節增加或減少。當您鬆開 [-VOL+] 桿時，此顯示將自動消失。

同樣可以通過 *遙控器來調節音量。按 [T] 鈕可增大音量，按 [W] 鈕可減少音量。

這種調節功能只限在放影時使用。

*遙控器：僅限於 NV-VZ15

- 因為揚聲器 ⑤ 中裝有磁鐵，請不要將錄影帶靠近揚聲器。否則者可能對錄影帶中已拍攝的畫面有不良影響。

ENGLISH

Playback

Watching Playback on the Movie Camera

You can watch playback of the recorded scenes.

1 Set the [CAMERA/OFF/VCR] Switch to [VCR].

- Turn the switch while pressing the button ①.
- The [VCR] Lamp ② lights.

2 Press the [◀◀] Button.

- The tape starts to rewind. When the tape reaches the beginning, the rewinding automatically stops.

3 Press the [▶] Button.

- Playback starts and the [▷] Indication ③ appears.
- When the tape reaches the end, it automatically rewinds to the beginning.

■ Stopping Playback

4 Press the [■] Button.

- Never disconnect the AC Adaptor during Playback. This could damage the Movie Camera or the tape.

■ Adjusting the Sound Volume (NV-VZ14/VZ15 only)

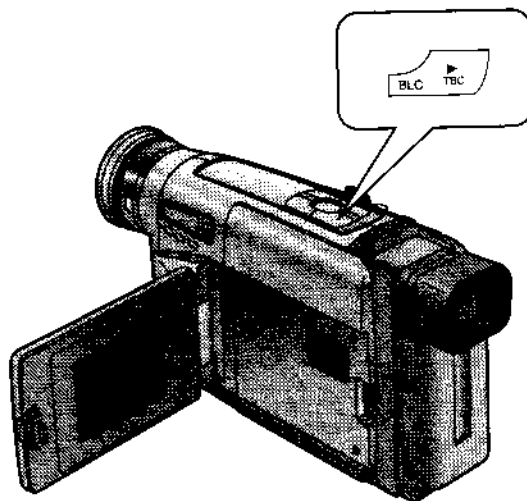
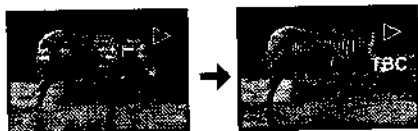
Push the [-VOL+] Lever ④ toward [+] to increase the volume or push it toward [-] to decrease the volume. The [VOLUME] Indication appears and the number of bars increases or decreases. When you release the Lever, this indication disappears.

You can also adjust the volume with the *Remote Controller. Increase the volume by pressing the [T] Button, or decrease it by pressing the [W] Button.

This adjustment is only possible during playback.

*Remote Controller: NV-VZ15 only

- Because the speaker ⑤ contains a magnet, do not bring a cassette near the speaker. It could adversely influence the recorded content.



中文

ENGLISH

TBC (時基校正器) 功能

某些錄影帶時，畫面可能會有輕微晃動或其他失真。為了使此類失真降至最低，並確保穩定的播放畫面，該攝錄影機裝備了TBC功能。在開始放影時，該功能將在幾秒鐘內自動啟動，且將出現[TBC]指示。

取消 TBC 功能時

對於某些錄影帶，TBC功能可能會使播放中的畫面產生輕微的垂直晃動或其他失真。

在此情況下，首先請嘗試調節一下軌跡(→ 62)。若此舉並未改進畫質時，請持續按住[TBC]鈕，直至[TBC]指示消失，以取消TBC功能。

如果您想重新啟動TBC功能時，請按住[TBC]鈕幾秒鐘，直至[TBC]指示重新出現為止。

即使您已經取消了TBC功能，當您將攝錄影機從攝錄影機狀態切換至放影機狀態時，該功能將自動啟動。

■ 在下列情況下，TBC 功能不會工作：

- 在快速尋影、倒帶尋影或靜止放影狀態下
- 使用攝錄影機尋影或拍攝檢查功能時
- 調節軌跡時
- 播放磁帶上尚未錄影部分時

當您播放被拉長、收縮或其它已損壞的錄影帶時，TBC功能將無法正常工作(該功能可能會反復啟動和關閉)。在此情況下，請取消TBC功能。

TBC (Time Base Corrector) Function

Playback of certain cassettes can cause slight horizontal shaking of the picture or other distortion. To minimise such distortion and ensure a stable playback picture, this Movie Camera is equipped with the TBC Function. This function is automatically activated within a few seconds after playback has started, and the [TBC] Indication appears.

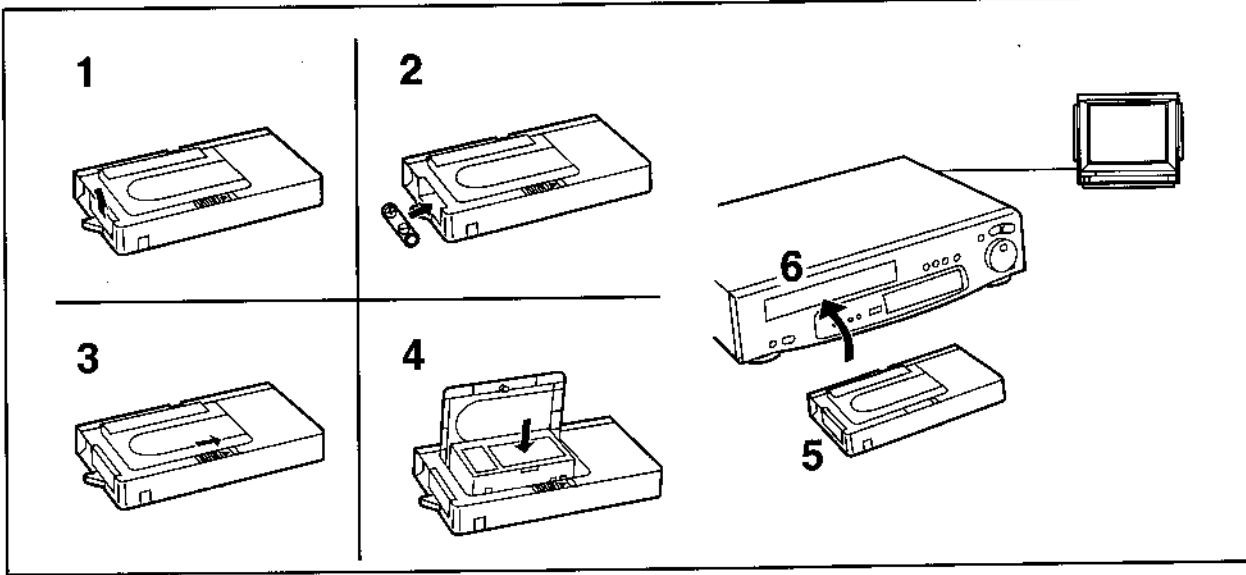
Cancelling the TBC Function

With certain cassettes, however, the TBC Function could cause slight vertical shaking or other distortion in the playback picture. In this case, first try to adjust the tracking (→ 62). If this does not improve the picture, cancel the TBC Function by keeping the [TBC] Button pressed until the [TBC] Indication disappears. If you want to turn the TBC Function on again, press the [TBC] Button for a few seconds until the [TBC] Indication reappears. Even if you cancel the TBC Function, it is automatically turned back on when you switch the Movie Camera from the Camera Mode to the VCR Mode.

■ In the Following Cases, the TBC Function Does Not Work:

- In the Cue, Review or Still Playback Mode
- When using the Camera Search or Recording Check Function
- When adjusting the tracking
- When playing back an unrecorded part on the tape

When you play back a cassette with stretched, shrunk or otherwise damaged tape, the TBC Function does not work correctly (it may repeatedly turn on and off). In this case, cancel the TBC Function.



中文

在錄影機上放影時 (使用附帶的磁帶轉接器)

使用附帶的磁帶轉接器(附件)時，便可在您的錄影機上，用與全尺寸錄影帶相同的方法，播放小型錄影帶。

- 1 向上按電池盒蓋，並將其取下。
- 2 插入附帶的電池，然後重新裝上電池盒蓋。
- 3 依箭頭方向，滑動開啟桿。
- 4 插入已錄好的錄影帶，關閉頂蓋。
- 5 將磁帶轉接器插到錄影機內。
- 6 開始錄影機的放影操作。

使用之後，請從磁帶轉接器中取出錄影帶。

ENGLISH

Playing Back on a VCR (Using the Supplied Cassette Adaptor)

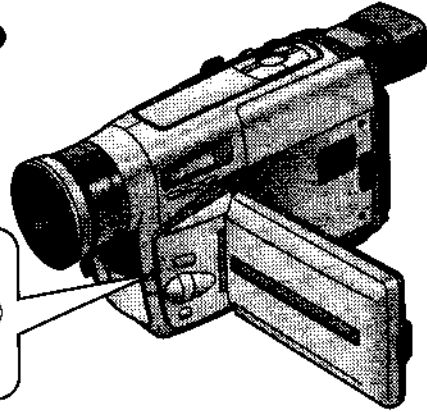
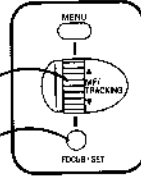
By using the supplied Cassette Adaptor (supplied), you can play back compact cassettes in your VCR in the same way as full-size cassettes.

- 1 Push the Battery Compartment Cover upward and remove it.
- 2 Insert the supplied battery and then re-attach the Battery Compartment Cover.
- 3 Slide the Open Lever in the direction of the arrow.
- 4 Insert the recorded cassette and close the Top Cover.
- 5 Insert the Cassette Adaptor Into the VCR.
- 6 Start playback on the VCR.

After use, take out the cassette from the Cassette Adaptor.



2
1



中文

消除畫面的失真(手動磁跡調節)

本攝錄影機將自動對磁跡進行調節。但是，對於某些錄影帶，磁跡調節可能會不十分精確。在這種情況下，請手動調節磁跡。

1 在進行播放時輕按一下 [FOCUS/SET] (聚焦 / 設定) 鈕。

- 將出現 [TRACK.] 指示 ❶。

2 轉動 [TRACKING] (磁跡) 環，調節磁跡。

- 連續 5 秒鐘未轉動 [TRACKING] 環時，磁跡調節功能將自動取消。
- 有可能無法完全消除雜波條紋。
- 在顯示菜單時，不能進行磁跡調節。
- 如果您在進行磁跡調節後取出錄影帶，所做的調節設定將被取消。

回到自動磁跡調節狀態

在播放時持續按 [FOCUS/SET] 鈕 2 秒鐘以上。

ENGLISH

Eliminating Picture Distortions (Manual Tracking Adjustment)

This Movie Camera adjusts the tracking automatically. With certain cassettes, however, the tracking adjustment may not be precise. In this case, adjust the tracking manually.

1 Press the [FOCUS/SET] Button briefly during playback.

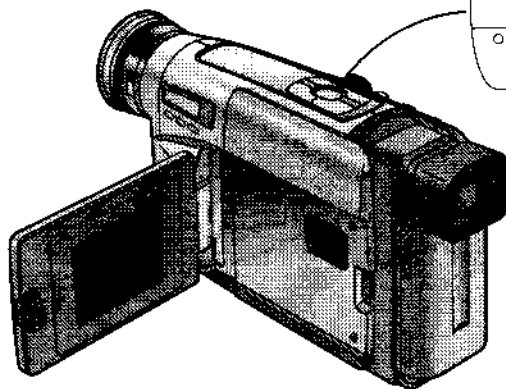
- The [TRACK.] Indication ❶ appears.

2 Turn the [TRACKING] Dial to adjust the tracking.

- The Tracking Adjustment Function is automatically cancelled when the [TRACKING] Dial is not turned for 5 seconds.
- It may not be possible to remove the noise bars completely.
- It is not possible to adjust the tracking when a menu is displayed.
- If you eject the cassette after adjusting the tracking, the adjusted setting is cancelled.

Returning to the Auto Tracking Mode

Press the [FOCUS/SET] Button for more than 2 seconds during playback.



中文

快進尋影放映時

1 在普通放映狀態下，持續按住 [▶▶] 鈕。

倒帶尋影放映時

2 在普通放映狀態下，持續按住 [◀◀] 鈕。

尋影鎖定功能

進行較長的快進尋影或倒帶尋影時，只能短暫地按快進尋影 [▶▶] 鈕或倒帶尋影 [◀◀] 鈕。由於這樣做會鎖定尋影功能，所以不必要長時間地按鈕。

- 恢復普通放映時，請按放映 [▶] 鈕。

靜止放映時

3 在普通放映狀態下，按 [IWB] 鈕。

恢復普通放映時

再次按 [IWB] 鈕。

- 在快進尋影、倒帶尋影以及靜止放映狀態下，畫面中會出現水平雜波條紋 ①，或者畫面變為黑白、失真。
- 在 SP 模式和 LP 模式下，水平雜波條紋的形式是不同的。
- 在快進尋影或倒帶尋影中，將不會出現指示。
- 如果攝錄影機處於靜止放映狀態超過 6 分鐘時，它將自動切換為停止狀態。而且，如果攝錄影機是由電池供電時，再過 6 分鐘後，它將完全關閉。

ENGLISH

Cue Playback

1 Keep the [▶▶] Button pressed during normal playback.

Review Playback

2 Keep the [◀◀] Button pressed during normal playback.

Search Lock Function

For longer Cue or Review Playback, press the Cue Button [▶▶] or the Review Button [◀◀] only briefly.

As this locks the search function, you do not need to keep the button pressed for a long time.

- To resume normal playback, press the [▶] Button.

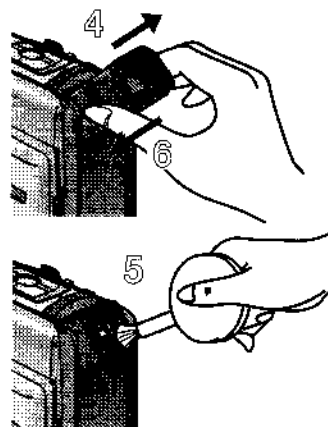
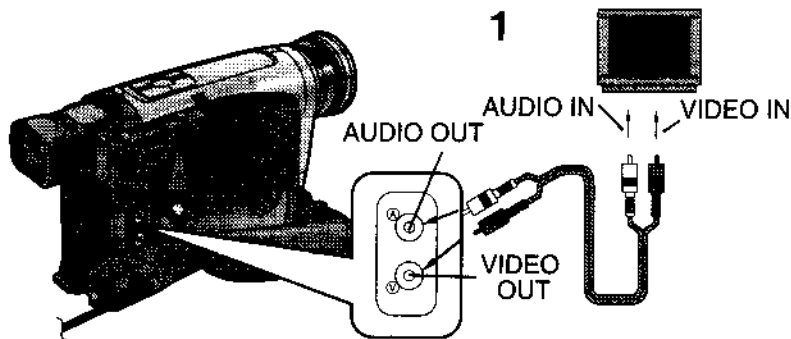
Still Playback

3 Press the [IWB] Button during normal playback.

Resuming Normal Playback

Press the [IWB] Button again.

- In the Cue, Review and Still Playback Modes, horizontal noise bars ① appear in the picture, or the picture may become black and white or distorted.
- The horizontal noise bars have a different pattern in the SP Mode and LP Mode.
- During Cue or Review Playback, no indications are displayed.
- If you leave the Movie Camera in the Still Playback Mode for approximately 6 minutes, it automatically switches over to the Stop Mode. And, if the Movie Camera is being powered by Battery, it switches off completely after a further 6 minutes.



中文

在電視機上觀看放影時

將攝錄影機連接至電視機時，便可在電視屏幕上觀看拍攝場景的放影。

連接之前，為安全起見，請關閉攝錄影機和電視機的電源。

- 1 用音頻纜線(另行購買)，將攝錄影機連接至電視機。

使用以後

- 1 取出錄影帶。(→ 40)
- 2 將 [CAMERA/OFF/VCR] 開關設置在 [OFF]。
- 3 拔掉交流轉接器或取出電池。

電子尋像器清潔

若電子尋像器中已經進入了灰塵時...

- 4 按電子尋像器兩邊的鈕，依箭頭所示，將其取下。
- 5 用吹氣刷(非附件)清除灰塵。
 - 如果您用棉籤或類似之物，來清潔電子尋像器內部時，須特別小心，以免劃傷電子尋像器的內部屏幕。
- 6 重新安裝電子尋像器時，將其向前推入電子尋像器套筒，直至咔嗒一聲將其鎖定。

液晶顯示監視器清潔(僅限於NV-VZ14/VZ15)

請用軟布或吹氣刷清潔液晶顯示監視器。

攝錄影機機殼清潔

請用軟布擦拭。

鏡頭清潔

請用軟布或吹氣刷清潔鏡頭。

ENGLISH

Watching Playback on a TV

By connecting the Movie Camera to a TV, you can watch playback of the recorded scenes on the TV screen. Before connecting, turn off both the Movie Camera and the TV for safety's sake.

- 1 Use the AV Cable (purchase separately) to connect the Movie Camera with the TV.

After Use

- 1 Take out the cassette. (→ 40)
- 2 Set the [CAMERA/OFF/VCR] Switch to [OFF].
- 3 Disconnect the AC Adaptor or remove the Battery.

Cleaning the Finder

If dust has entered the Finder...

- 4 Push the Buttons on both sides of the Finder and remove it in the direction of the arrow.
- 5 Remove dust with a blower brush (not supplied).
 - If you use a cotton swab or similar to clean the inside of the Finder, use it very carefully to prevent scratching the screen inside the Finder.
- 6 To re-attach the Finder, push it forward onto the Finder Tube until it locks with a click.

Cleaning the LCD Monitor (NV-VZ14/VZ15 only)

Clean the LCD Monitor with a soft cloth or a blower brush.

Cleaning the Movie Camera Body

Wipe it with a soft cloth.

Cleaning the Lens

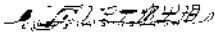
Clean the lens with a soft cloth or a blower brush.

怎樣使用超級畫面穩定功能

拍攝時容易發生晃動，如您拉近遙遠的目標物或在行走進行攝影中等狀況下強行拍攝時，可利用該功能來穩定圖像。

- 當攝影機晃動非常嚴重時，有可能無法穩定畫面。

1 按超級畫面穩定器鈕 [SIS]。



取消超級畫面穩定功能時

再按 [SIS] 鈕。

■ 下列拍攝情況下，畫面穩定效果可能會不夠好：

- 具有水平和垂直條紋的目標物
- 平坦的目標物
- 黑暗的目標物 (在此情況下，[SIS] 指示將閃爍。請增加光量。)
- 大量熒光燈下的目標物

Using the Super Image Stabilizer Function

In recording situations where shaking of the Movie Camera is likely to happen, for example when you have zoomed in on a distant subject or when you record while walking, use this function to stabilize the image.

- In case of very strong camera shake, the image may not stabilize the picture.

1 Press the Super Image Stabilizer Button [SIS].

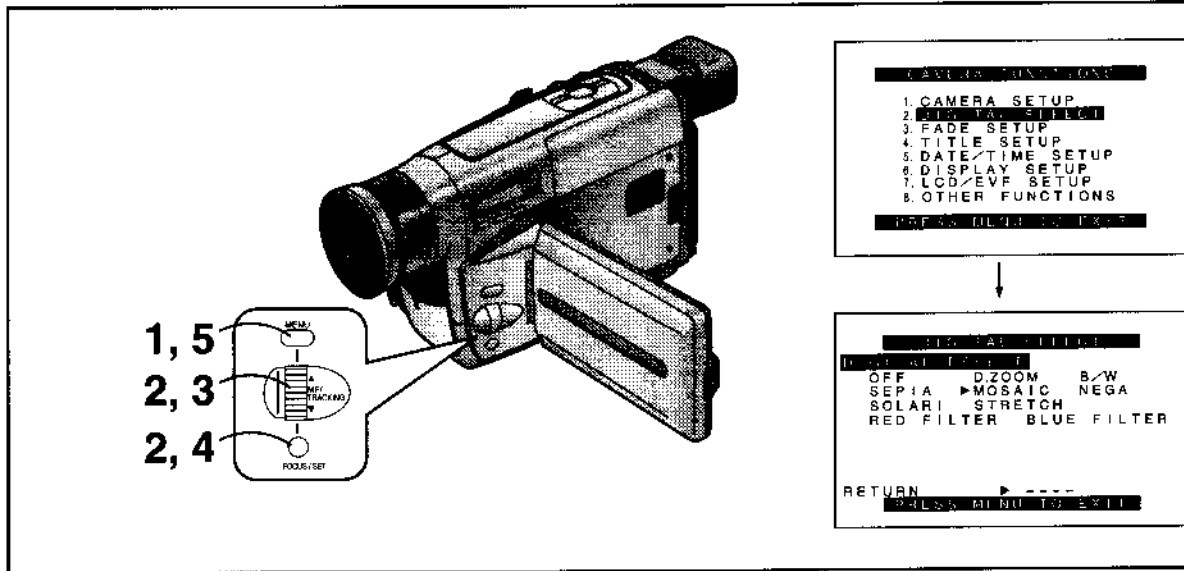
- The [SIS] Indication appears.

Canceling the Super Image Stabilizer Function

Press the [SIS] Button again.

■ In the Following Recording Conditions, the Picture Stabilizing Effect May Not Be Sufficient:

- Subjects with horizontal or vertical stripes
- Flat subjects
- Dark subjects (In this case, the [SIS] Indication flashes. Increase the amount of light.)
- Subjects under many fluorescent lamps



中文

使用特殊效果 (數位效果)

除數位變焦之外，該攝錄影機還可為您提供多種不同的數位效果狀態，使其能夠以創造性手段，簡單地為您的場景增光添彩。

選擇需要的數位效果

- 1 按[MENU] (菜單) 鈕。
 - 將顯示 [CAMERA FUNCTIONS] (攝像功能) 主菜單。
- 2 轉動 [▲▼] 環，選擇 [DIGITAL EFFECT] (數碼功能)，然後按 [SET] (設定) 鈕。
 - 將顯示 [DIGITAL EFFECT] (數碼功能) 子菜單。
- 3 轉動 [▲▼] 環，選擇 [DIGITAL EFFECT]。
- 4 按 [SET] 鈕，選擇需要的數位效果。
- 5 按 [MENU] 鈕，退出菜單。

- 如果您將 [CAMERA/OFF/VCR] 開關設置在 [OFF]，然後再次將其設置在 [CAMERA]，您所選擇的數位效果的指示將閃爍幾秒鐘，向您報告當前所選擇的設定。
- 如果您將 [DIGITAL EFFECT] (數碼功能) 子菜單上的 [DIGITAL EFFECT] 設置在 [B/W] (黑白狀態) 或 [SEPIA] (棕色狀態)，[RED FILTER] (紅色濾波器) 或 [BLUE FILTER] (藍色濾波器) 則無法手動調節白色平衡。(→ 90)

取消數位效果時

※ [DIGITAL EFFECT] (數碼功能) 子菜單上的 [DIGITAL EFFECT] 設置在 [OFF]。

ENGLISH

Using Special Effects (Digital Effects)

In addition to the Digital Zoom, this Movie Camera offers you various digital effect modes to make it easy to enhance your scenes in many creative ways.

Selecting a Desired Digital Effect

- 1 Press the [MENU] Button.
 - The [CAMERA FUNCTIONS] Main-Menu appears.
- 2 Turn the [▲▼] Dial to select [DIGITAL EFFECT] and then press the [SET] Button.
 - The [DIGITAL EFFECT] Sub-Menu appears.
- 3 Turn the [▲▼] Dial to select [DIGITAL EFFECT].
- 4 Press the [SET] Button to select the desired digital effect.
- 5 Press the [MENU] Button to exit the menu.

- If you set the [CAMERA/OFF/VCR] Switch to [OFF] and then set it to [CAMERA] again, the indication of the selected digital effect flashes for a few seconds to inform you of the selected setting.
- If you have set [DIGITAL EFFECT] on the [DIGITAL EFFECT] Sub-Menu to [B/W], [SEPIA], [RED FILTER] or [BLUE FILTER] it is not possible to manually adjust the white balance. (→ 90)

Cancelling the Digital Effect

Set [DIGITAL EFFECT] on the [DIGITAL EFFECT] Sub-Menu to [OFF].



中文

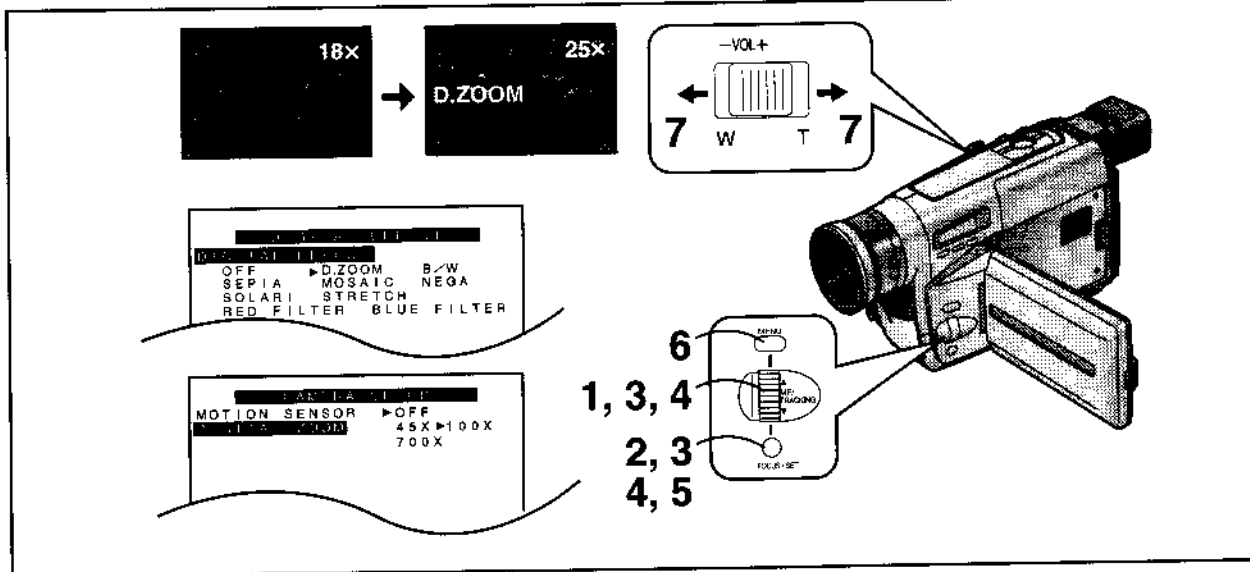
數位效果 [DIGITAL EFFECT]

- ① 數位變焦狀態 [D.ZOOM] (→ 74)
該效能可將目標物放大得遠遠超過光學變焦範圍之外。
- ② 黑白狀態 [B/W]
將以黑白兩色拍攝圖像。
- ③ 棕色狀態 [SEPIA]
用棕色調拍攝場景，類似舊照片的色彩。
- ④ 馬賽克狀態 [MOSAIC]
畫面將變得如同馬賽克一般。
- ⑤ 負片狀態 [NEGA]
圖像色彩顛倒，如同照片的底片一樣。
- ⑥ 曝光過久狀態 [SOLARI]
以繪畫一般的效果拍攝圖像。
- ⑦ 加寬狀態 [STRETCH]
畫面被水平加寬，而其高度仍保持不變。
- ⑧ 紅色狀態 [RED FILTER]
畫面將泛紅。
- ⑨ 藍色狀態 [BLUE FILTER]
畫面將泛藍。

ENGLISH

Digital Effects [DIGITAL EFFECT]

- ① Digital Zoom Mode [D.ZOOM] (→ 74)
It enlarges the subject beyond the optical zooming range.
- ② Black & White Mode [B/W]
The picture is in black and white.
- ③ Sepia Mode [SEPIA]
Scenes have a brown tint similar to the colour of old photographs.
- ④ Mosaic Mode [MOSAIC]
The picture becomes mosaic-like.
- ⑤ Negative Mode [NEGA]
The picture has reversed colours similar to photographic negatives.
- ⑥ Solarisation Mode [SOLARI]
The picture has an effect similar to a painting.
- ⑦ Stretch Mode [STRETCH]
The picture is stretched horizontally while its height remains unchanged.
- ⑧ Red Mode [RED FILTER]
The picture becomes reddish.
- ⑨ Blue Mode [BLUE FILTER]
The picture becomes bluish.



中文

怎樣使用數位變焦功能

本機的正常(光學)變焦功能可以提供1×至18×的變焦放大倍率範圍。當您拍攝非常遙遠的目標物時，如果您希望將圖像放得比普通變焦能得到的倍率更大時，使用本功能將非常便利。對於數位變焦功能，您可在最多至45×、最多至100×和最多至700×放大之間進行選擇。

在顯示出[DIGITAL EFFECT](數碼功能)子菜單後... (→ 70)

- 1 轉動[▲▼]環，選擇[DIGITAL EFFECT](數碼功能)。
- 2 按[SET](設定)鈕，選擇[D.ZOOM]。
- 3 轉動[▲▼]環，選擇[RETURN](返回)，然後按[SET]鈕，選擇[YES](是)。
 - 將顯示[CAMERA FUNCTIONS]主菜單。
- 4 在[CAMERA SETUP]子菜單上選擇[DIGITAL ZOOM]。(→ 26)
- 5 按[SET]鈕，選擇需要的數位變焦範圍(高達45×，高達100×或高達700×)。
- 6 按[MENU]鈕，退出菜單。
 - [D.ZOOM]指示將出現。
- 7 根據需要朝[T]或[W]方向，按[W/T]變焦桿，進行拉近或拉遠。
 - 使用數位變焦功能時，畫質將有所降低。

取消數位變焦功能時

在[DIGITAL EFFECT](數碼功能)子菜單上的[DIGITAL EFFECT]設置在[OFF]。

ENGLISH

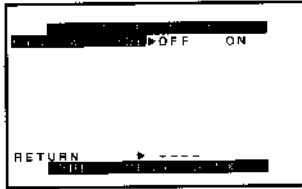
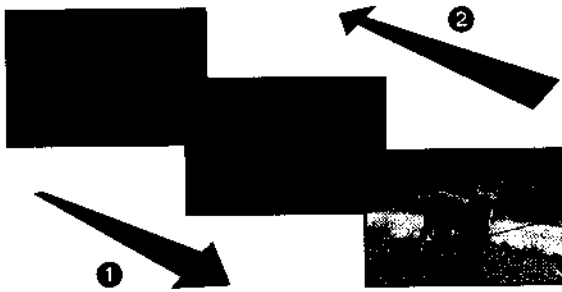
Using the Digital Zoom Function

This function is convenient when you want to enlarge a very distant subject even more than is possible with the normal (optical) zoom which offers a magnification range of 1X-18X. For the Digital Zoom Function, you can choose between up to 45X, up to 100X and up to 700X magnification. After displaying the [DIGITAL EFFECT] Sub-Menu... (→ 70)

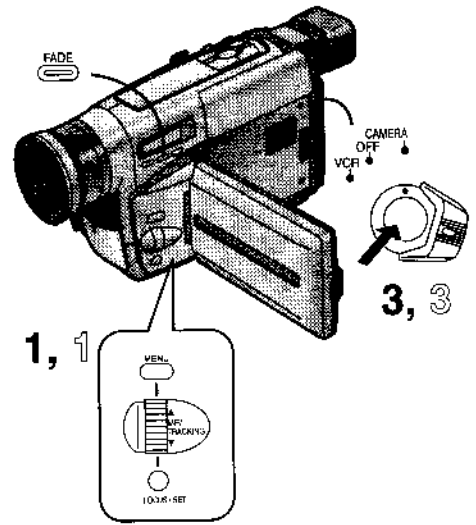
- 1 Turn the [▲▼] Dial to select [DIGITAL EFFECT].
- 2 Press the [SET] Button to select [D.ZOOM].
- 3 Turn the [▲▼] Dial to select [RETURN] and then press the [SET] Button to select [YES].
 - The [CAMERA FUNCTIONS] Main-Menu appears.
- 4 Select [DIGITAL ZOOM] on the [CAMERA SETUP] Sub-Menu. (→ 26)
- 5 Press the [SET] Button to select the desired digital zoom range (up to 45X, up to 100X or up to 700X).
- 6 Press the [MENU] Button to exit the menu.
 - The [D.ZOOM] Indication appears.
- 7 Push the [W/T] Zoom Lever toward [T] or [W] to zoom in or out as desired.
 - When using the Digital Zoom Function, the picture quality is somewhat reduced.

Cancelling the Digital Zoom Function

Set [DIGITAL EFFECT] on the [DIGITAL EFFECT] Sub-Menu to [OFF].



2, 4
2, 4



中文

淡入/淡出

■ 淡入 ①

淡入可讓您在拍攝的開頭，使畫面逐漸出現。

- 1 將[FADE SETUP](淡化設定)子菜單上的[DIGITAL FADE](數位淡化)設定為[OFF]。(→ 26)
- 2 在攝錄影機處於拍攝暫停狀態之下，持續按住[FADE](淡化)鈕。
- 3 當畫面完全消失後，按拍攝開始/停止鈕開始拍攝。
- 4 約3-4秒鐘後，請鬆開[FADE]鈕。

■ 淡出 ②

淡出可讓您在拍攝的結尾，使畫面逐漸消失。

- 1 將[FADE SETUP]子菜單上的[DIGITAL FADE]設定為[OFF]。
- 2 在拍攝中，持續按住[FADE]鈕。
- 3 在畫面完全消失後，按拍攝開始/停止鈕，停止拍攝。
- 4 鬆開[FADE]鈕。

ENGLISH

Fading In/Out

■ Fading In ①

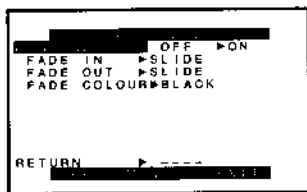
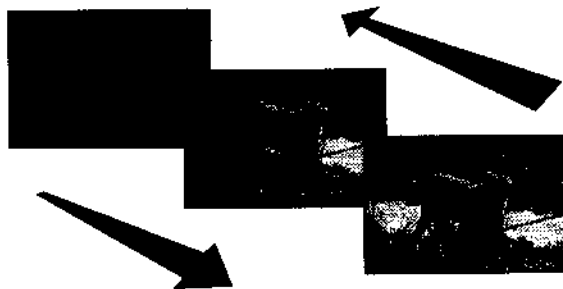
Fading in lets you make the picture appear gradually at the beginning of a recording.

- 1 Set [DIGITAL FADE] on the [FADE SETUP] Sub-Menu to [OFF]. (→ 26)
- 2 With the Movie Camera in the Recording Pause Mode, keep the [FADE] Button pressed.
- 3 When the picture has completely disappeared, press the Recording Start/Stop Button to start recording.
- 4 Approximately 3-4 seconds later, release the [FADE] Button.

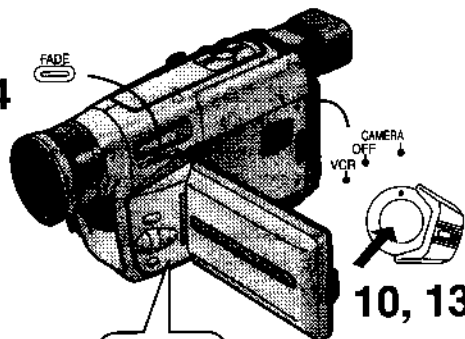
■ Fading Out ②

Fading out lets you make the picture disappear gradually at the end of a recording.

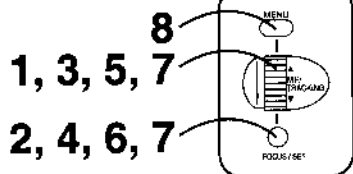
- 1 Set [DIGITAL FADE] on the [FADE SETUP] Sub-Menu to [OFF].
- 2 During recording, keep the [FADE] Button pressed.
- 3 After the picture has completely disappeared, press the Recording Start/Stop Button to stop recording.
- 4 Release the [FADE] Button.



9, 11
12, 14



10, 13



中文

數位淡化

有各種數位淡化狀態可用。

在顯示出[FADE SETUP](淡化設定)子菜單後... (→ 26)

- 1 轉動[▲▼]環，選擇[DIGITAL FADE](數位淡化)。
 - 2 按[SET](設定)鈕，選擇[ON]。
 - 3 轉動[▲▼]環，選擇[FADE IN](淡入)。
 - 4 按[SET]鈕，選擇需要的淡入效果。
 - 5 轉動[▲▼]環，選擇[FADE OUT](淡出)。
 - 6 按[SET]鈕，選擇需要的淡出效果。
 - 7 將[FADE COLOUR](淡化色彩)設定為需要的色彩。
 - 數位淡化的色彩將依下列順序進行改變：
- | | | | | | | |
|---------------|---|---------------|---|----------------|---|------------------|
| BLACK
(黑色) | → | WHITE
(白色) | → | YELLOW
(黃色) | → | RED
(紅色) |
| GREEN
(綠色) | ← | CYAN
(藍綠色) | ← | BLUE
(藍色) | ← | MAGENTA
(深紅色) |
- 8 按[MENU](菜單)鈕，退出菜單。
 - 9 在攝錄影機處於拍攝暫停狀態下，按住[FADE]鈕。
 - 10 當畫面完全消失後，按拍攝開始/停止鈕，開始拍攝。
 - 11 約3-4秒鐘，然後鬆開[FADE]鈕。
 - 畫面將以選擇的數位淡化效果逐漸出現。
 - 12 在拍攝中，按住[FADE]鈕。
 - 畫面將以選擇的數位淡化效果逐漸消失。
 - 13 當畫面完全消失後，按拍攝開始/停止鈕，停止拍攝。
 - 14 鬆開[FADE]鈕。

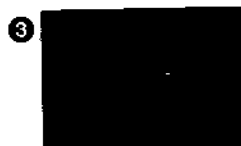
ENGLISH

Digital Fade

There are various Digital Fade Modes available.

After displaying the [FADE SETUP] Sub-Menu... (→ 26)

- 1 Turn the [▲▼] Dial to select [DIGITAL FADE].
 - 2 Press the [SET] Button to select [ON].
 - 3 Turn the [▲▼] Dial to select [FADE IN].
 - 4 Press the [SET] Button to select the desired the fade in effect.
 - 5 Turn the [▲▼] Dial to select [FADE OUT].
 - 6 Press the [SET] Button to select the desired the fade out effect.
 - 7 Set [FADE COLOUR] to the desired colour.
 - The colours of the Digital Fade change in the following order:
- | | | | | | | |
|-------|---|-------|---|--------|---|---------|
| BLACK | → | WHITE | → | YELLOW | → | RED |
| GREEN | ← | CYAN | ← | BLUE | ← | MAGENTA |
- 8 Press the [MENU] Button to exit the menu.
 - 9 With the Movie Camera in the Recording Pause Mode, keep the [FADE] Button pressed.
 - 10 When the picture has completely disappeared, press the Recording Start/Stop Button to start recording.
 - 11 Approximately 3-4 seconds later, release the [FADE] Button.
 - The picture appears gradually with the selected digital fade effect.
 - 12 During recording, keep the [FADE] Button pressed.
 - The picture disappears gradually with the selected digital fade effect.
 - 13 After the picture has completely disappeared, press the Recording Start/Stop Button to stop recording.
 - 14 Release the [FADE] Button.

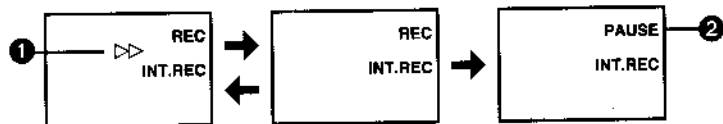
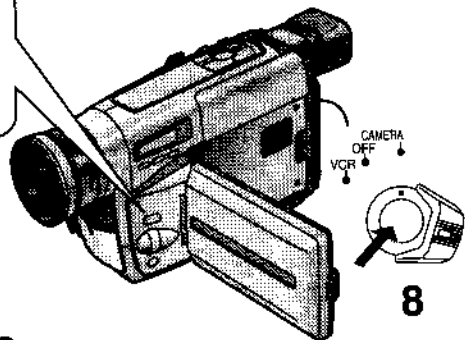
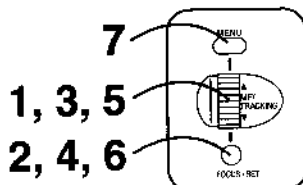
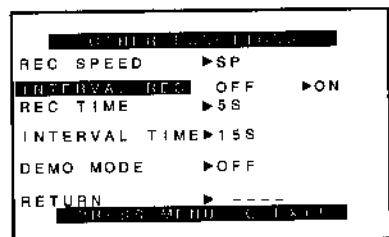


中文

- 1 幻燈片狀態 [SLIDE]**
畫面將以劃變效果淡入或淡出。
- 2 大門狀態 [DOOR]**
畫面將像開門一樣朝左右淡入，或依相反方向淡出。
- 3 四角狀態 [CORNER]**
畫面將從右上角至左下角淡入，或依相反方向淡出。
- 4 窗口狀態 [WINDOW]**
畫面將從中心開始朝四邊擴展而淡入，或依相反方向淡出。
- 5 快門狀態 [SHUTTER]**
畫面將像快門一樣從中央垂直淡入，或依相反方向淡出。

ENGLISH

- 1 Slide Mode [SLIDE]**
The picture fades in with a wipe effect or fades out.
- 2 Door Mode [DOOR]**
The picture fades in to the left and right like a door opens or fades out in reverse direction.
- 3 Corner Mode [CORNER]**
The picture fades in from the upper right to the lower left corner or fades out in reverse direction.
- 4 Window Mode [WINDOW]**
The picture fades in starting at the centre and extending toward the edges or fades out in reverse direction.
- 5 Shutter Mode [SHUTTER]**
The picture fades in vertically from the center like a shutter or fades out in reverse direction.



間隔錄影

您可在預設時間間隔內進行連續錄影。將攝錄影機瞄準特定目標，便可拍攝長時間內的微妙變化。

- 不能在已經用LP狀態拍攝的內容上進行音頻拷貝。(→ 32)

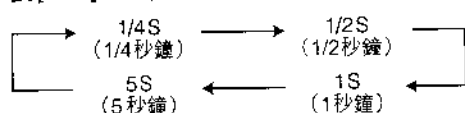
在顯示出[OTHER FUNCTIONS](其他功能)子菜單後... (→ 26)

1 轉動[▲▼]環，選擇[INTERVAL REC](間隔錄影)。

2 按[SET](設定)鈕，選擇[ON]。

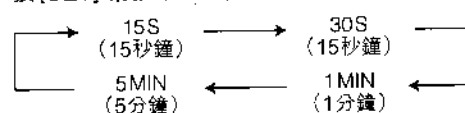
3 轉動[▲▼]環，選擇[REC TIME](錄影時間)。

4 按[SET]鈕，選擇需要的錄影時間。



5 轉動[▲▼]環，選擇[INTERVAL TIME](間隔時間)。

6 按[SET](設定)鈕，選擇需要的間隔時間。



7 按[MENU](菜單)鈕，可退出該菜單。

- [INT.REC](間隔錄影)指示將出現。

8 按錄影開始/停止鈕。

- 將自動交替進行錄影和間隔。

取消間隔錄影狀態時

當[▶▶]指示 ❶ 未出現時，請拍攝開始/停止鈕，使[PAUSE]指示 ❷ 出現。然後，將[OTHER FUNCTIONS]子菜單上的[INTERVAL REC](間隔錄影)設定在[OFF]。

- 在連續錄影之後，進行其它操作前，請確認間隔錄影狀態已被停止。
- 在關閉攝錄影機或取出錄影帶時，間隔錄影狀態將被取消。

ENGLISH

Interval Recording

You can record sequentially at preset time spans. Leaving the Movie Camera aimed at a specific subject, you can record subtle changes over an extended period of time.

- It is not possible to perform interval recording onto recordings made in the LP Mode. (→ 32)

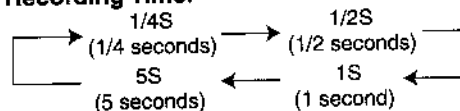
After displaying the [OTHER FUNCTIONS] Sub-Menu... (→ 26)

1 Turn the [▲▼] Dial to select [INTERVAL REC].

2 Press the [SET] Button to select [ON].

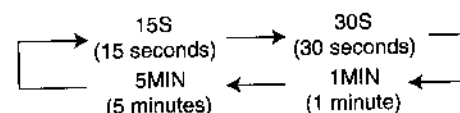
3 Turn the [▲▼] Dial to select [REC TIME].

4 Press the [SET] Button to select the desired Recording Time.



5 Turn the [▲▼] Dial to select [INTERVAL TIME].

6 Press the [SET] Button to select the desired Interval Time.



7 Press the [MENU] Button to exit the menu.

- The [INT.REC] Indication appears.

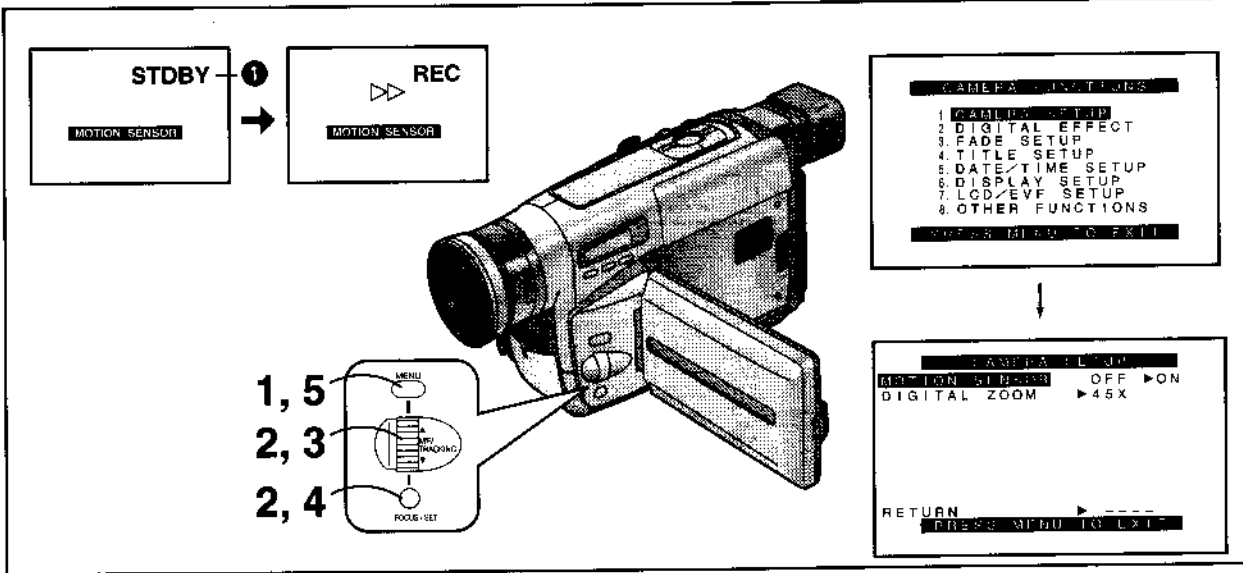
8 Press the Recording Start/Stop Button.

- Recording and intervals alternate automatically.

Cancelling the Interval Recording Mode

When the [▶▶] Indication ❶ is not displayed, press the Recording Start/Stop Button to make the [PAUSE] indication ❷ appear. And then set [INTERVAL REC] on the [OTHER FUNCTIONS] Sub-Menu to [OFF].

- Before performing other operations following Interval Recording, make sure the Interval Recording Mode is deactivated.
- The Interval Recording Mode is cancelled when the Movie Camera is turned off.



中文

移動感應器控制拍攝

在該狀態下，當內藏移動感應器探測到畫面有某些移動時，會自動開始拍攝。

- 1** 按[MENU]鈕。
 - 將顯示[CAMERA FUNCTIONS](攝像功能)主菜單。
- 2** 轉動[▲▼]環，選擇[CAMERA SETUP](攝像設定)，然後按[SET]鈕。
 - 將顯示[CAMERA SETUP](攝像設定)子菜單。
- 3** 轉動[▲▼]環，選擇[MOTION SENSOR]。
- 4** 按[SET]鈕，選擇[ON]。
- 5** 按[MENU]鈕，退出菜單。
 - 將出現移動感應器功能待命[STDBY]指示 ❶。

- 在攝錄影機的移動感應器探測到畫面中的移動後約1秒鐘，會自動開始拍攝。待畫面中的移動停止約10秒鐘之後，將自動停止拍攝，且攝錄影機會處於移動感應器待命狀態。
- 當攝錄影機處於移動感應器待命狀態下超過6分鐘時，電子尋像器或*液晶顯示監視器將關閉。當移動感應器再次探測到畫面中的變化時，將在約4秒鐘之後重新開始自動拍攝，同時電子尋像器或液晶顯示監視器打開。
*液晶顯示監視器：僅限於NV-VZ14/VZ15

在待命狀態下取消移動感應器功能時

將[CAMERA SETUP](攝像設定)子菜單上的[MOTION SENSOR]設置在[OFF]。

在拍攝中取消移動感應器功能時

按住拍攝開始/停止鈕約2秒鐘。

ENGLISH

Motion-Sensor-Controlled Recording

In this mode, recording automatically starts when the built-in Motion Sensor detects some movement in the picture.

- 1** Press the [MENU] Button.
 - The [CAMERA FUNCTIONS] Main-Menu appears.
- 2** Turn the [▲▼] Dial to select [CAMERA SETUP] and then press the [SET] Button.
 - The [CAMERA SETUP] Sub-Menu appears.
- 3** Turn the [▲▼] Dial to select [MOTION SENSOR].
- 4** Press the [SET] Button to select [ON].
- 5** Press the [MENU] Button to exit the menu.
 - The Motion Sensor Function Stand-by [STDBY] Indication ❶ appears.

- Approximately 1 second after the Movie Camera's Motion Sensor has detected movement in the picture, recording automatically starts. Approximately 10 seconds after movement in the picture has stopped, recording automatically stops and the Movie Camera is in the Motion Sensor Function Stand-by Mode.
- When the Movie Camera remains in the Motion Sensor Function Stand-by Mode for more than 6 minutes, the Finder or *LCD Monitor turns off. When the Motion Sensor again detects movement in the picture, recording automatically restarts after approximately 4 seconds, and the Finder or LCD Monitor turns on.
*LCD Monitor: NV-VZ14/VZ15 only

Cancelling the Motion Sensor Function During Stand-by Set
Set [MOTION SENSOR] on the [CAMERA SETUP] Sub-Menu to [OFF].

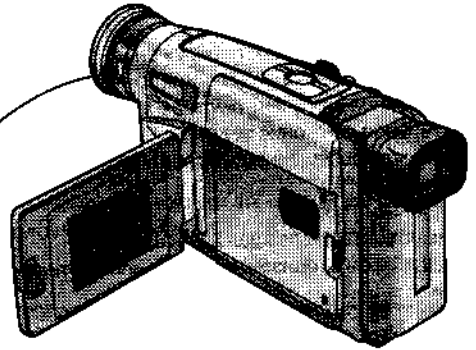
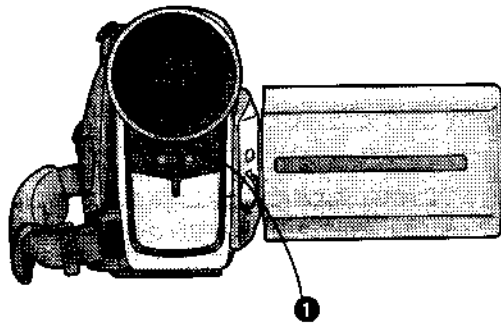
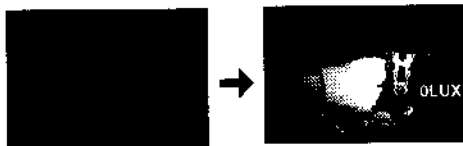
Cancelling the Motion Sensor Function During Recording
Press the Recording Start/Stop Button for approximately 2 seconds.

■ 在下列拍攝狀況下，移動感應器可能無法正常工作：

- 目標物後面為白色牆面或其他單色背景時。
 - 帶水平、垂直或斜線條紋的目標物時。
 - 環境亮度發生突然變化時。
 - 攝錄影機的曝光稍微撞擊或振動時。
 - 目標物移動得太慢或太快時。
 - 目標物的移動距離很短。
 - 在暗光之處拍攝時。([MOTION SENSOR] 指示閃爍。)
 - 目標物非常小時。
 - 目標物的移動靠近畫面邊緣時。
 - 背景中有水平或垂直條紋時。
- 為了防止因攝錄影機移動而引起的意外拍攝，應該將攝錄影機安裝在三腳架或者將其擱置於非常穩定的位置。
 - 當 [CAMERA SETUP] (攝像設定) 子菜單中的 [MOTION SENSOR] (移動感應器) 被設定在 [ON] (開) 時，雖然您可以在 [DIGITAL EFFECT] (數碼功能) 子菜單中選擇數位效果，但是移動感應器功能具有優先權，所選擇的數位效果將被自動取消。
 - 當 [CAMERA SETUP] (攝像設定) 子菜單上的 [MOTION SENSOR] 被設定在 [ON] 時，將無法用按拍攝開始/停止鈕的方法手動開始拍攝，也不能啟動拍攝檢查或攝錄影機尋影功能。
 - 當您用交流轉接器為攝錄影機供電時，若未探測到畫面移動時，即使拍攝中錄影帶已經到達結尾，移動感應器功能待命狀態仍將繼續下去。
 - 為確保移動感應器能夠正常地工作，畫面的目標物應足夠大。因此，當您將鏡頭變焦到最大廣角位置時，鏡頭與目標物之間的距離最好在2米以內。對於遠距離的目標物，須將其相應的拉近。
 - 開始拍攝之前，攝錄影機需要一定的時間進行設定。所以，移動的開頭部分將拍攝不到。
 - 如果發生了停電時，移動感應器功能將被取消。

■ In the Following Recording Situations, the Motion Sensor May Not Work Correctly:

- A white wall or another single-colour background behind the subject.
 - A subject with horizontal, vertical or oblique stripes.
 - Sudden changes in the surrounding brightness.
 - Exposure of the Movie Camera to slight shocks or vibration.
 - Extremely slow or fast movement of the subject.
 - Very little movement of the subject.
 - Recording in a dimly lit place. (The [MOTION SENSOR] Indication flashes.)
 - A very small subject.
 - Movement of the subject near the edge of the picture.
 - A background with horizontal or vertical stripes.
- To prevent accidental recording start caused by Movie Camera movement, the Movie Camera should be mounted on a tripod or be otherwise secured in a very stable position.
 - Although you can select a digital effect on the [DIGITAL EFFECT] Sub-Menu when [MOTION SENSOR] on the [CAMERA SETUP] Sub-Menu is set to [ON], the Motion Sensor Function has priority and the selected digital effect is automatically cancelled.
 - When [MOTION SENSOR] on the [CAMERA SETUP] Sub-Menu is set to [ON], it is not possible to manually start recording by pressing the Recording Start/Stop Button or to activate the Recording Check or Camera Search Function.
 - When you use the AC Adaptor to power the Movie Camera, the Motion Sensor Function Stand-by Mode will continue when no movement is detected in the picture, even when the tape has reached the end during recording.
 - To ensure correct functioning of the Motion Sensor Function, the moving subject should be quite large in the picture. Therefore, when you have zoomed the lens to the maximum wide-angle position, the distance between lens and subject should preferably be within about 2 metres. For subjects at larger distances, be sure to zoom in accordingly.
 - The Movie Camera requires time to set up before recording starts. Therefore, the beginning of movement is not recorded.
 - If there is a power interruption, the Motion Sensor Function is cancelled.



中文

ENGLISH

在無任何照明的暗處進行拍攝時 (0 Lux 夜景功能)

當您打算在夜晚無任何照明之處進行攝影，如觀察夜間活動的動物等時，該功能非常便利。在此狀態下，攝錄影機將發射紅外線，以便拍攝無法用肉眼看見的目標物。

1 將[0 LUX OFF/ON]開關設置在[ON]，使[0LUX]指示出現。

● 內藏紅外線光束發射器 **1** 會亮起。拍攝時，小心勿讓您的手指擋住了發射器。

- 勿光照明亮之處使用 0 Lux 夜景功能，也絕對勿將攝錄影機對準太陽，否則可能會造成不可挽回的損壞。
- 用 0 Lux 夜景功能所拍攝之場景的放映畫面，將是黑白的。
- 如果您在拍攝中改變了 [0 LUX OFF/ON] 開關的設定時，也可能會錄下切換雜訊。
- 用 0 Lux 夜景功能拍攝時，將無法手動調節白色平衡或取消手動調節的白色平衡設定值。
- 當 0 Lux 夜景功能啟動時，不能使用任何程序 AE 狀態。
- 使用 0 Lux 夜景功能時，目標物應該位於距攝錄影機 3 米之內。
- 當自動聚焦不精確時，請手動調節焦距。
- 在 0 Lux 夜景狀態下，由於此時光圈完全開啟，被錄製的白色或其他顏色的目標物可能會顯得蒼白，模糊或缺乏對比度。
- 如果您將 0 Lux 夜景功能和移動感應器控制拍攝功能結合使用時，一旦攝錄影機內藏移動感應器探測到畫面中有些移動時，便會自動開始拍攝。這種功能結合非常便於在夜間進行簡易和行動不定的動物觀察。

取消 0 Lux 夜景功能時

將 [0 LUX OFF/ON] 開關設定在 [OFF]，以便 [0 LUX] 指示消失。

Recording in Dark Places without Any Illumination (0 Lux Night View Function)

This function is convenient when you want to record at night in places without any illumination, for example for observing the behaviour of nocturnal animals, etc. In this mode, the Movie Camera emits infrared rays which makes it possible to record subjects that are invisible to the naked eye.

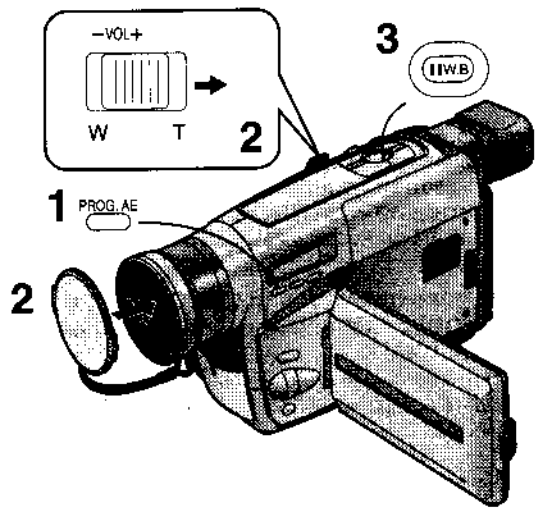
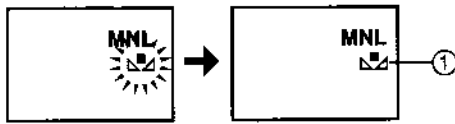
1 Set the [0 LUX OFF/ON] Switch to [ON] to make the [0LUX] Indication appear.

● The built-in Infra-red Beam Emitters **1** light. Be careful not to cover them with your hand when recording.

- Do not use the 0 Lux Night View Function in brightly lit places and never aim the Movie Camera against the sun, as this could cause irreparable damage.
- The playback picture of scenes recorded with the 0 Lux Night View Function will be in black and white.
- If you change the setting of the [0 LUX OFF/ON] Switch during recording, a switching noise is also recorded.
- When recording with the 0 Lux Night View Function, it is not possible to adjust the white balance manually or to cancel the manually adjusted white balance setting.
- It is not possible to use any of the Programme AE Modes when the 0 Lux Night View Mode is activated.
- When using the 0 Lux Night View Function, the subject should be within 3 metres from the Movie Camera.
- When the automatic focusing is not precise, adjust the focus manually.
- As the iris is fully opened in the 0 Lux Night View Mode, subjects in white or other light colours may be recorded whitish, blurred and with weak contrast.
- If you use the 0 Lux Night View Function together with the Motion-Sensor-Controlled Recording Function, recording starts automatically when the Movie Camera's built-in Motion Sensor detects some movement in the picture. This combination function is convenient for easy, unattended animal observations at night.

Cancelling the 0 Lux Night View Function

Set the [0 LUX OFF/ON] Switch to [OFF] to make the [0LUX] Indication disappear.



中文

ENGLISH

用手動白色平衡調節進行拍攝時

使用該攝錄影機時，也可手動調節白色平衡。

該狀態可用不適合於全自動狀態的特殊目標物和拍攝條件，以及超出範圍 ① (→ 92) 之光源。當您想如專家一樣，對每個新場景，用手動進行白色平衡調節時，也可使用該功能。

- 1 連續按動 [PROG. AE] (程序 AE) 鈕，直至顯示出除 [AUTO] (自動) 指示以外的指示為止。
- 2 裝上白色鏡頭蓋，並拉近，直至整個屏幕變為白色。
- 3 持續按住 [W.B] (白色平衡) 鈕，直至 [WB] 指示 ① 在電子尋像器中停止閃爍，並保持亮起為止。

在下列情況下，您將無法改變白色平衡：

- 當您將 [DIGITAL EFFECT] (數位效果) 子菜單上的 [DIGITAL EFFECT] 設定為 [B/W]、[SEPIA]、[RED FILTER] 或 [BLUE FILTER] 時
- 在零照度夜視狀態中

在下述情況下，[WB] 指示將閃爍：

- 在手動調節白色平衡過程中。(如果環境很暗，無法調節白色平衡時，[WB] 指示將持續閃爍。)
- 當上一次設置的手動白色平衡設定被保持時。

取消手動白色平衡狀態時

按一次 [W.B] 鈕。或者，連續按動 [PROG. AE] 鈕，直至顯示出 [AUTO] 指示。

不適合於用全自動狀態拍攝的目標物和拍攝條件

- 有黑色表面的目標物
- 由鈉燈照明的目標物

Recording with Manual White Balance Adjustment

With this Movie Camera, you can also adjust the white balance manually.

Use this mode for special subjects and recording conditions, for which the Full Auto Mode is not suitable, and for light sources outside the range ① (→ 92). Use it also when you want to manually adjust the white balance for each new scene as professionals do.

- 1 Press the [PROG. AE] Button repeatedly until an indication other than [AUTO] Indication appears.
- 2 Attach the White Lens Cap and zoom in until the entire screen is white.
- 3 Keep the [W.B] Button pressed until the [WB] Indication ① stops flashing and remains lit.

In the following cases, you cannot change White Balance:

- When you set [DIGITAL EFFECT] on the [DIGITAL EFFECT] Sub-Menu to [B/W], [SEPIA], [RED FILTER] or [BLUE FILTER]
- During 0 Lux Night View Mode

In the following cases, the [WB] Indication flashes:

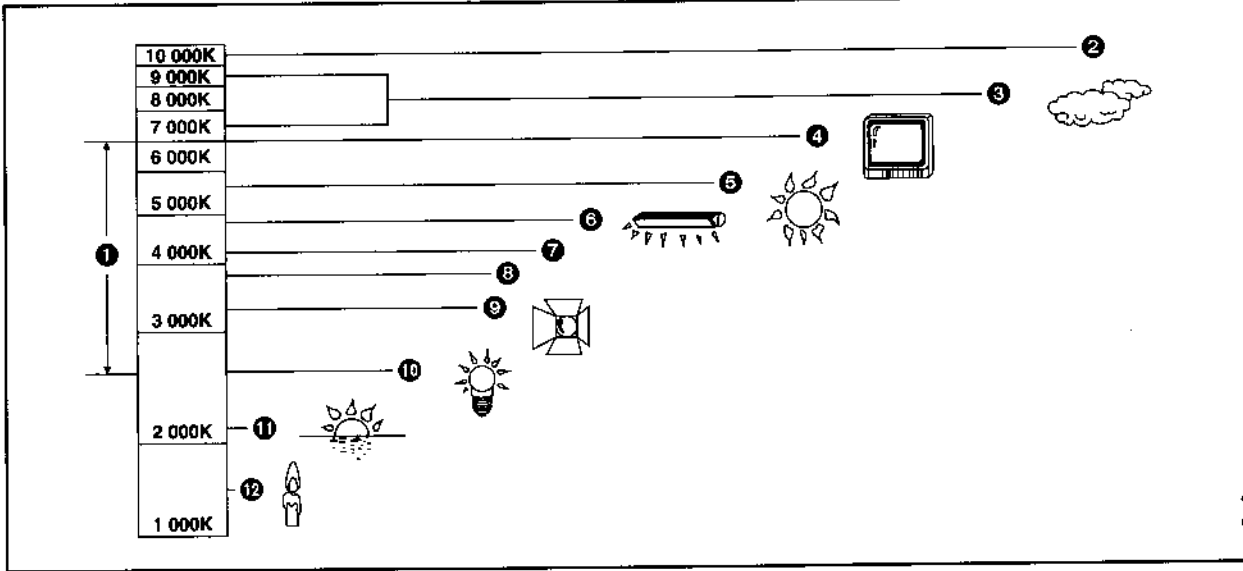
- During manual adjustment of the white balance. (If the surroundings are dark and the white balance cannot be adjusted, the [WB] Indication keeps flashing.)
- When the previously manual white balance adjustment is maintained.

Canceling the Manual White Balance Mode

Press the [W.B] Button once. Or, press the [PROG. AE] Button repeatedly until the [AUTO] Indication appears.

Subjects and Recording Conditions Not Suitable for Recording in the Full Auto Mode

- Subjects with dark surfaces
- Subjects lit by sodium lamps



中文

色溫 and 白色平衡調節

每種光源都有其獨特的色溫，其值由開氏溫標(K)測量。開氏值越高，光越帶藍色；開氏值越低，光越泛紅色；開氏值與光源的色調有關，而與其亮度沒有直接關係。

上圖所示範圍 ①，表示用本攝錄影機可提供精確的白色平衡調節的光源。所以，當使用全自動狀態時，便可在攝製的畫面中獲得自然色彩。對於此範圍之外的光源，請手動調節白色平衡。(→ 90) 而且，還可能需要增加光源。

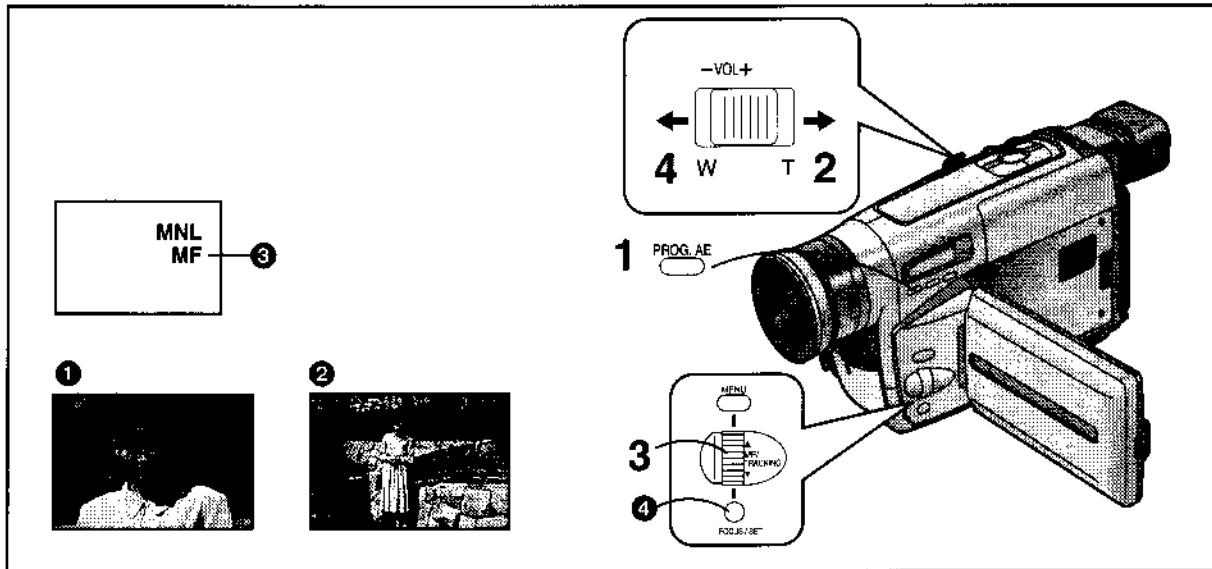
- ① 本攝錄影機的自動白色平衡調節的控制範圍
- ② 藍天
- ③ 陰天(小雨)
- ④ 電視屏幕
- ⑤ 陽光
- ⑥ 白色熒光燈
- ⑦ 日出後或日落前的兩小時
- ⑧ 日出後或日落前的一小時
- ⑨ 鹵素燈
- ⑩ 白熾燈
- ⑪ 日出或日落
- ⑫ 燭光

ENGLISH

Colour Temperature and White Balance Adjustment

Every light source has its own colour temperature measured in Kelvin (K). The higher the Kelvin value, the more bluish the light; the lower the value, the more reddish the light. The Kelvin value is related to the tint of the light, but not directly to its brightness. The range ① indicated in the illustration above shows the light sources for which this Movie Camera can provide precise white balance adjustment and, therefore, natural colours in the recorded pictures, when using the Full Auto Mode. For light sources outside this range, adjust the white balance manually (→ 90). Also, additional lighting may be necessary.

- ① Control range of this Movie Camera's Auto White Balance Adjustment Mode
- ② Blue sky
- ③ Cloudy sky (Rain)
- ④ TV screen
- ⑤ Sunlight
- ⑥ White fluorescent lamp
- ⑦ 2 hours after sunrise or before sunset
- ⑧ 1 hour after sunrise or before sunset
- ⑨ Halogen light bulb
- ⑩ Incandescent light bulb
- ⑪ Sunrise or sunset
- ⑫ Candlelight



中文

用手動聚焦調節進行拍攝時

對於無法精確地進行自動聚焦的目標物和拍攝條件，該功能可讓您手動調節聚焦。

- 1 連續按動 [PROG. AE] (程序 AE) 鈕，直至顯示出除 [AUTO] (自動) 指示以外的指示為止。
- 2 將 [W/T] 變焦桿持續推向 [T]，拉近目標物。①
 - 調節聚焦之前，先拉近目標物，確保即使您以後拉遠時，目標物也能保持精確的聚焦。②
- 3 轉動 [MF] 環，調節聚焦。
 - 會出現 [MF] 指示 ③。([MF] 意思為手動聚焦。)
- 4 將 [W/T] 變焦桿持續推向 [W]，根據需要進行拉遠。

取消手動聚焦狀態時

按一次 [FOCUS] (變焦) 鈕 ④，使 [MF] 指示消失。或者，連續按動 [PROG. AE] 鈕，直至顯示出 [AUTO] 指示。

不適合於用全自動狀態拍攝的目標物和拍攝條件

- 有黑色表面的目標物
- 有光澤或光線反射太強的目標物
- 反差太小的目標物
- 一部分靠近攝錄影機而另一部分離得太遠的目標物
- 無垂直輪廓的目標物
- 快速移動的目標物
- 在移動物體後面的目標物
- 位於佈滿髒污、灰塵或水滴的玻璃後面的目標物

ENGLISH

Recording with Manual Focus Adjustment

This makes it possible to adjust the focus manually for subjects and recording situations for which automatic focusing is not precise.

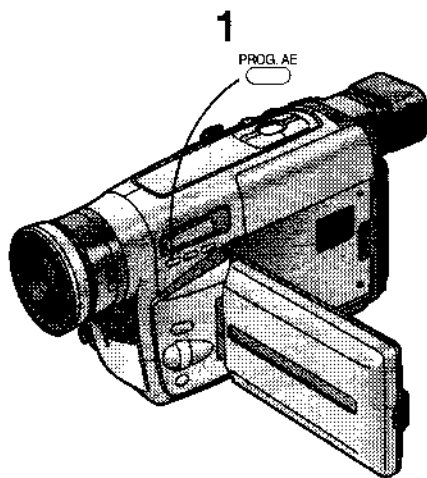
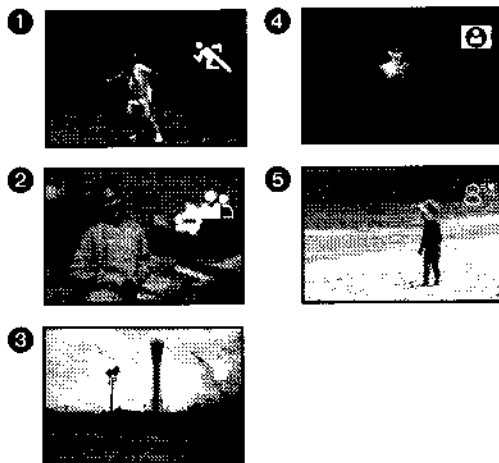
- 1 Press the [PROG. AE] Button repeatedly until an indication other than [AUTO] Indication appears.
- 2 Keep the [W/T] Zoom Lever pushed toward [T] to zoom in on the subject ①.
 - Zooming in on the subject before adjusting the focus ensures that the subject remains precisely focused even when you later zoom out ②.
- 3 Turn the [MF] Dial to adjust the focus.
 - The [MF] Indication ③ appears. ([MF] means Manual Focus.)
- 4 Push the [W/T] Zoom Lever toward [W] to zoom out as desired.

Cancelling the Manual Focus Mode

Press the [FOCUS] Button ④ once to make the [MF] Indication disappear. Or, press the [PROG. AE] Button repeatedly until [AUTO] Indication appears.

Subjects and Recording Conditions Not Suitable for Recording in the Full Auto Mode

- Subjects with dark surfaces
- Subjects with shiny surfaces or a lot of light reflection
- Subjects with weak contrast
- Subjects with part of it near and part of it far away from the Movie Camera
- Subjects without vertical contours
- Subjects with fast movement
- Subjects behind moving objects
- Subjects behind glass covered by dirt, dust or water drops



中文

在各種情況下拍攝 (程序AE)

該功能可讓您選擇最適合特殊拍攝狀況的自動曝光設定。

1 連續按動[PROG. AE](程序AE)鈕，直至顯示出所需要的狀態指示 ([], [], [], []或[])。

- 1** 運動狀態 []
可拍攝運動場景之類快速移動的目標物。
- 2** 素描特寫狀態 []
可使目標物明顯地突出於背景。
- 3** 弱光狀態 []
可將較暗的場景拍得更亮。
- 4** 聚光燈狀態 []
可拍攝聚光燈下的目標物(晚會、劇場等)。
- 5** 碎浪和雪地狀態 []
可拍攝亮背景中的目標物(雪地、海灘等)。

- 在拍攝中，即使您按下[PROG. AE]鈕，也不能改變拍攝狀態 ([AUTO](自動)、[MNL](手動)、[]、[]、[]、[]、[])。
- 0 Lux 夜景狀態啟動時，將無法使用任何程序AE狀態。

取消所選擇的程序AE功能

連續按動[PROG. AE]鈕，直至不顯示上述指示 ([]、[]、[]、[]、[])。

ENGLISH

Recording in Special Situations (Programme AE)

This function lets you select Automatic Exposure settings optimized for special recording situations.

1 Press the [PROG. AE] Button repeatedly until the indication of the desired mode ([, [, [, [] or []) appears.


- 1** Sports Mode []
To record scenes with fast-moving subjects such as sports scenes.
- 2** Portrait Mode []
To make subjects stand out sharply from the background.
- 3** Low Light Mode []
To record dark scenes more brightly.
- 4** Spotlight Mode []
To record subjects under spotlights (party, theatre, etc.).
- 5** Surf & Snow Mode []
To record subjects in brightly lit surroundings (ski slopes, beach, etc.).

- During recording, it is not possible to change the recording mode ([AUTO], [MNL], [, [, [, [, []), even if you press the [PROG. AE] Button.
- It is not possible to use any of the Programme AE Modes when the 0 Lux Night View Mode is activated.

Cancelling the Selected Programme AE Function

Press the [PROG. AE] Button repeatedly until none of the indications ([, [, [, [, []) are displayed.

運動狀態

- 當播放用運動狀態拍攝的場景時，可欣賞圖像細部極其精微、清晰的慢動作和靜止放影。
- 請避免在熒光燈、水銀蒸氣燈或鈉燈下拍攝，否則放影時可能會產生色彩和亮度的抖晃。
- 如果所攝目標物被強光照射或反射太強，放影時可能會出現白色垂直亮條。
- 當場景光照不足時，[] 指示將閃爍。
- 如果使用此狀態進行室內拍攝，放影時影像可能會出現閃動。

素描特寫狀態

- 如果使用此狀態進行室內拍攝，放影時影像可能會出現閃動。

弱光狀態

- 在極暗的場景下拍攝時，可能無法將目標物拍得足夠亮。
- 如果在拍攝時使用此狀態，在播放畫面時可能會出現噪聲。


聚光燈狀態

- 使用本狀態進行拍攝時，被攝畫面可能會變得很黑。
- 如果目標物極亮，被攝畫面可能會泛白。

碎浪和雪地狀態

- 如果目標物極亮，被攝畫面可能會泛白。

Sports Mode

- When playing back scenes recorded in the Sports Mode, you can enjoy slow motion and still playback of very sharp images with fine details.
- Avoid recording under fluorescent, mercury-vapour or sodium lamps as the colour and the brightness of the playback picture may fluctuate.
- When recording subjects lit by strong lights or with much light reflection, the playback picture may contain vertical streaks of light.
- When the scene is not sufficiently lit, the [] Indication flashes.
- When using this mode for recording indoors, the playback picture may flicker.

Portrait Mode

- When using this mode for recording indoors, the playback picture may flicker.

Low Light Mode

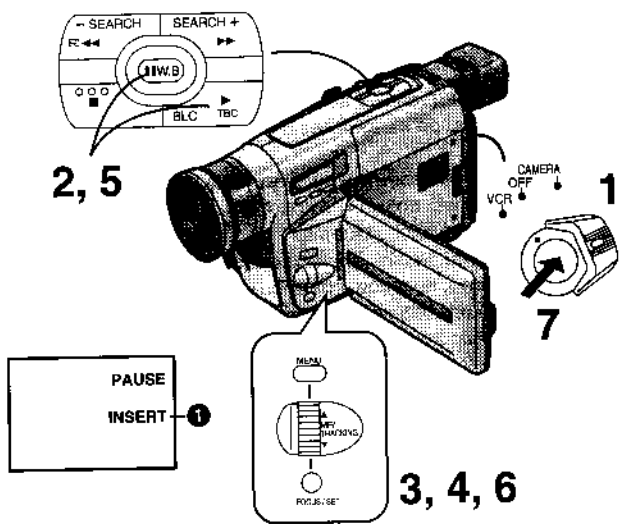
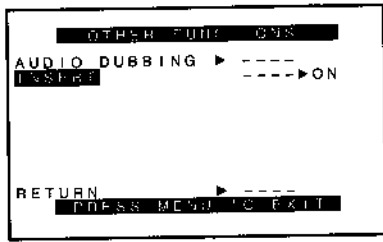
- It may not be possible to sufficiently brighten up extremely dark scenes.
- The use of this mode for recording may cause noise in the playback picture.

Spotlight Mode

- When using this mode, the recorded picture may be extremely dark.
- If a subject is extremely bright, the recorded picture may be whitish.

Surf & Snow Mode

- If a subject is extremely bright, the recorded picture may be whitish.



中文

插入編輯

您可在插入和退出點之間，以最小的畫面失真來替換原錄影部分，從而將新場景轉錄在以前所拍攝的磁帶上。

- 1** 插入已錄磁帶，將[CAMERA/OFF/VCR]開關設置在[VCR]。
 - 必須插入保險卡完好無損的磁帶，若保險卡已被去掉時，應用膠帶紙將其蓋住。
- 2** 按[▶]鈕，開始播放，在您打算停止編輯的磁帶位置，按暫停鈕[⏸]。
- 3** 使磁帶計數器復位至零。(→ 122)
- 4** 將[DISPLAY SETUP] (顯示設定) 子菜單上的[DISPLAY]設定為[MEMORY] (記憶)。
- 5** 在您打算開始插入編輯的位置，播放靜止畫面。
- 6** 將[OTHER FUNCTIONS] (其它功能) 子菜單上的[INSERT] (插入) 設定為[ON]。
 - 會出現[INSERT]指示 ①。
- 7** 將攝錄影機轉至要插入的標題，然後按拍攝開始/停止鈕。
 - 插入編輯將自動停止在您將計數器復位至零的大致位置。

停止插入編輯時

按拍攝開始/停止鈕。
攝錄影機將再次處於拍攝暫停狀態。

取消插入編輯功能時

按[■]鈕。

- 當未處於靜止播放狀態時，將無法把[OTHER FUNCTIONS]子菜單上的[INSERT]設定在[ON]。
- 在磁帶上的未錄影部分，將無法進行插入編輯操作。如果您要這麼做，磁帶將停止。
- 當在拍攝暫停狀態下按[MENU] (菜單) 鈕時，會出現攝錄影機的菜單。然而，您將不能使用[CAMERA SETUP] 子菜單的[MOTION SENSOR]、[OTHER FUNCTIONS] 子菜單的[REC SPEED] 和 [INTERVAL REC]。

ENGLISH

Insert Editing

You can record a new scene onto a previously recorded tape, replacing a section of the original recording with minimal picture distortion at the in- and out-points. The original audio remains unchanged.

- 1** Insert the recorded cassette and set the [CAMERA/OFF/VCR] Switch to [VCR].
 - Be sure to insert the cassette with an intact tab or if the tab has been removed, cover the hole with an adhesive tape.
- 2** Press the [▶] Button to start playback and press the Pause Button [⏸] at the tape position at which you want the editing to stop.
- 3** Reset the Tape Counter to zero. (→ 122)
- 4** Set [DISPLAY] on the [DISPLAY SETUP] Sub-Menu to [MEMORY].
- 5** Play back a still picture at the point at which you want the Insert Editing to start.
- 6** Set [INSERT] on the [OTHER FUNCTIONS] Sub-Menu to [ON].
 - The [INSERT] Indication ① appears.
- 7** Turn the Movie Camera to the title to be inserted and press the Recording Start/Stop Button.
 - The Insert Editing automatically stops approximately at the position at which you reset the counter to zero.

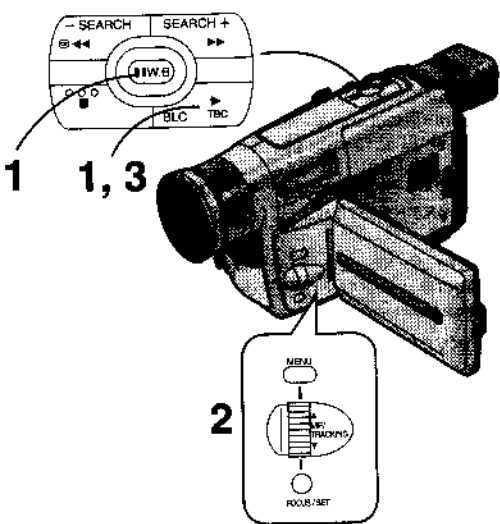
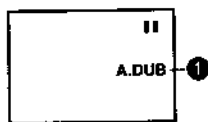
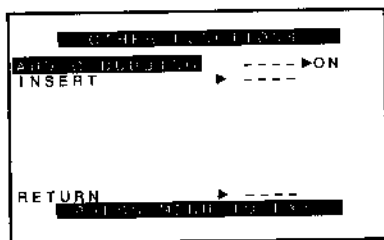
Stopping Insert Editing

Press the Recording Start/Stop Button.
The Movie Camera is again in the Recording Pause Mode.

Cancelling the Insert Editing Function

Press the [■] Button.

- It is not possible to set [INSERT] on the [OTHER FUNCTIONS] Sub-Menu to [ON] when it is not in the Still Playback Mode.
- It is not possible to perform Insert Editing on an unrecorded part of the tape. If you try to do so, the tape will stop.
- When pressing the [MENU] Button in the Recording Pause Mode, the Menu of Camera Mode appears. However, you cannot use the [MOTION SENSOR] of the [CAMERA SETUP] Sub-Menu, [REC SPEED] and [INTERVAL REC] of the [OTHER FUNCTIONS] Sub-Menu.



在已錄磁帶上添加新的聲音(音頻拷貝)

您可在以前所錄磁帶上錄製新的音樂或對白，以取代原音頻部分。

進行下列步驟之前，請完成第 100 頁上的步驟 1-4。

- 1 在您打算開始音頻拷貝之點，播放靜止畫面。
- 2 將 [OTHER FUNCTIONS] (其它功能) 子菜單上的 [AUDIO DUBBING] (音頻拷貝) 設定為 [ON]。
 - 會出現 [A.DUB] 指示 ❶。
- 3 按播放鈕 [▶]，開始音頻拷貝。
 - 音頻拷貝會自動停止在您將計數器復位至零的大致位置。

停止音頻拷貝時

按 [||] 鈕。

攝錄影機將重新處於靜止播放狀態。

取消音頻拷貝功能時

按 [■] 鈕。

- 當未處於靜止播放狀態時，將無法把 [OTHER FUNCTIONS] 子菜單上的 [AUDIO DUBBING] 設定在 [ON]。
- 在磁帶上的未錄影部分，將無法進行音頻拷貝操作。如果您要這麼做，磁帶將停止。
- 使用音頻拷貝功能時，畫質將有所下降。然而，這不會影響所錄製的畫質。

ENGLISH

Adding New Sound on a Recorded Cassette (Audio Dubbing)

You can record a new music or narration onto a previously recorded tape, replacing a section of the original audio.

Perform steps 1-4 on page 100 before performing the following steps.

- 1 Play back a still picture at the point at which you want the audio dubbing to start.
- 2 Set [AUDIO DUBBING] on the [OTHER FUNCTIONS] Sub-Menu to [ON].
 - The [A.DUB] Indication ❶ appears.
- 3 Press the Playback Button [▶] to start audio dubbing.
 - The Audio Dubbing automatically stops approximately the position at which you reset the counter to zero.

Stopping Audio Dubbing

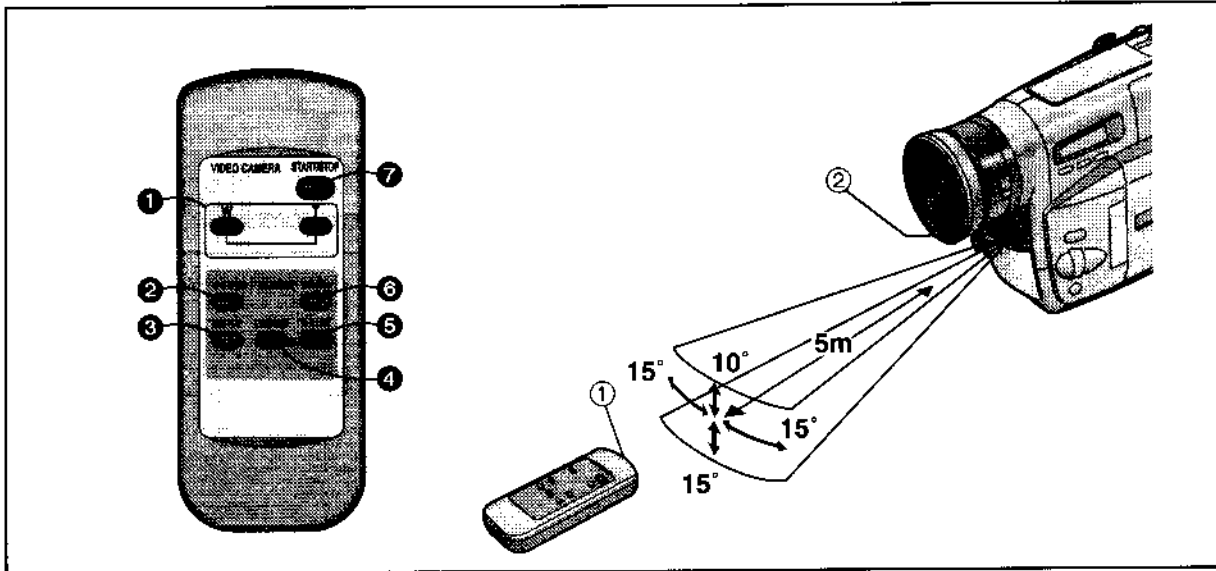
Press the [||] Button.

The Movie Camera is again in the Still Playback Mode.

Cancelling the Audio Dubbing Function

Press the [■] Button.

- It is not possible to set [AUDIO DUBBING] on the [OTHER FUNCTIONS] Sub-Menu to [ON] when it is not in the Still Playback Mode.
- It is not possible to perform Audio Dubbing on an unrecorded part of the tape. If you try to do so, the tape will stop.
- When using the Audio Dubbing Function, the picture quality is somewhat reduced. However, it doesn't affect the recorded picture.



遙控器使用 (僅限於NV-VZ15/RZ15)

該遙控器可讓您參入攝影之中，並從攝錄影機的前面控制拍攝操作。

■ 遙控器上的按鈕

與攝錄影機上標誌相同的按鈕，一般具有相同的功能。

- ① [W/T] 雙焦鈕 (→ 54, 56, 74)
- ② 倒帶 / 倒帶尋影鈕 [◀◀]
可開始倒帶尋影放影。(→ 64)
可倒帶。(→ 56)
可啟動攝錄影機尋影功能。(→ 52)
可啟動拍攝檢查功能。(→ 52)
- ③ 停止鈕 [■] (→ 56)
- ④ 暫停鈕 [⏸] (→ 64)
- ⑤ 放影鈕 [▶] (→ 56)
- ⑥ 快進 / 快進尋影鈕 [▶▶]
可開始快進尋影放影。(→ 64)
可快進錄影帶。
可啟動攝錄影機尋影功能。(→ 52)
- ⑦ 拍攝開始 / 停止鈕 [START/STOP] (→ 50)

■ 正確操作遙控器的條件

- 離攝錄影機的距離不能超過 5 米。
- 勿讓遙控器上的發射窗①或攝錄影機上的遙控感應器②暴露在直射陽光下或被布等物品蓋住。
- 當用遙控器操作變焦該功能時，將無法改變變焦速度。而且，按遙控器上的變焦鈕與攝錄影機上的機械變焦功能的實際動作之間，存在着稍微的延遲。
- 在 1 米的範圍之內，從側面 ([MENU] 鈕一側) 也可使用遙控器。(僅限於 NV-VZ15)

ENGLISH

Using the Remote Controller (NV-VZ15/RZ15 only)

The Remote Controller lets you take part in the action and control the recording operation from in front of the Movie Camera.

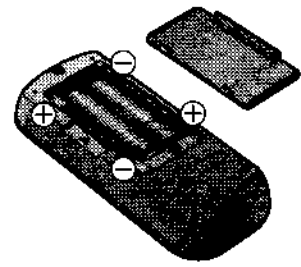
■ Buttons on the Remote Controller

The buttons with the same mark as on the Movie Camera generally have the same function.

- ① Zoom Buttons [W/T] (→ 54, 56, 74)
- ② Rewind/Review Button [◀◀]
To start review playback. (→ 64)
To rewind the tape. (→ 56)
To activate the Camera Search Function. (→ 52)
To activate the Recording Check Function. (→ 52)
- ③ Stop Button [■] (→ 56)
- ④ Pause Button [⏸] (→ 64)
- ⑤ Playback Button [▶] (→ 56)
- ⑥ Fast Forward/Cue Button [▶▶]
To start cue playback. (→ 64)
To fast-forward the tape.
To activate the Camera Search Function. (→ 52)
- ⑦ Recording Start/Stop Button [START/STOP] (→ 50)

■ Conditions for Correct Operation of the Remote Controller

- The distance to the Movie Camera must not be more than 5 metres.
- The Transmitter Window ① on the Remote Controller or the Remote Control Sensor ② on the Movie Camera must not be exposed to direct sunlight and not be covered with clothes, etc.
- When operating the Zoom Function with the Remote Controller, it is not possible to vary the zooming speed. Also, there is a slight delay between pressing the Zoom Buttons on the Remote Controller and the mechanical zoom adjustment on the Movie Camera.
- Within a distance of about 1 metre, it is also possible to use the Remote Controller from the side ([MENU] Button side). (NV-VZ15 only)

1**2****3**

007

將電池插入遙控器

- 1** 取下電池蓋。
- 2** 插入電池，使電池極性(⊕和⊖)與指示相一致。
- 3** 裝上電池蓋。

■ 電池的更換

電池的壽命大約為一年。

當電池耗盡時，請購買兩節新的“AAA”、“UM-4”或“R03”型號電池，並依照上述方法進行更換。

- 請不要將用過的電池與新的電池混用。
- 請不要將不同種類的電池混用。例如：鹼性電池和錳電池。
- 請不要使用充電電池(鎳-鎘電池)。
- 請不要將電池短路。
- 當您長時間不用遙控器時，請將電池取出，並將其存放在陰涼乾燥的地方。

ENGLISH

Inserting the Batteries into the Remote Controller

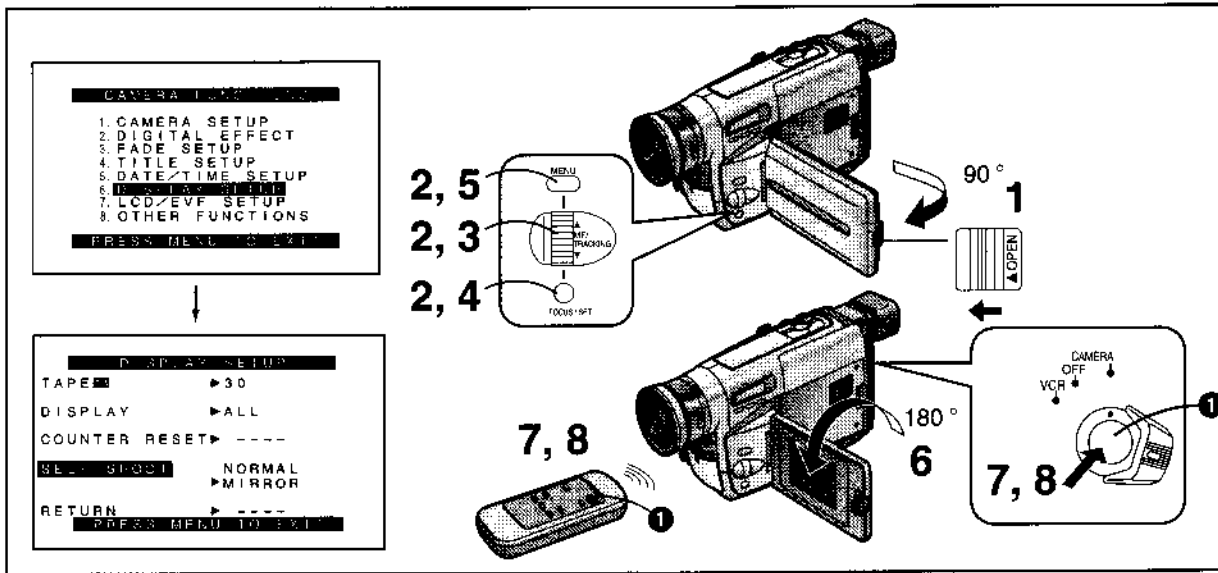
- 1** Remove off the Battery Cover.
- 2** Insert the batteries with the polarity (⊕ and ⊖) correctly aligned.
- 3** Replace the Battery Cover.

■ Replacing the Batteries

The life of the batteries is about 1 year.

When the batteries are exhausted, purchase two new “AAA”, “UM-4” or “R03” type batteries and insert them in the same way as explained above.

- Do not mix old batteries with new batteries.
- Do not mix different battery types, i.e. Alkaline and Manganese.
- Do not use rechargeable (Ni-Cd) batteries.
- Do not short-circuit the batteries.
- When you do not use the Remote Controller for a long time, take out the batteries and store them in a cool, dry place.



中文

使液晶顯示監視器朝向前方進行自我攝影時 (僅限於NV-VZ14/VZ15)

旋轉液晶顯示監視器，使其朝前，以便您能夠瞄準攝錄影機，並觀看電子尋像器上的畫面，同時，攝錄影機前面的人，可在拍攝中檢查液晶顯示監視器上的畫面。如果您將攝錄影機安裝在三腳架上，並使用*遙控器時，便也可加入正在拍攝的活動中，並從液晶顯示監視器的前面檢查畫面。

*遙控器：僅限於NV-VZ15

- 1 向左滑動[▲OPEN]桿，同時如箭頭所示，將液晶顯示監視器打開約90°。
 - 2 顯示出[DISPLAY SETUP](屏幕顯示設定)子菜單。(→ 26)
 - 3 轉動[▲▼]環，選擇[SELF SHOOT](自拍)。
 - 4 按[SET]鈕，選擇需要的狀態([NORMAL]或[MIRROR])。
 - [NORMAL]意思為普通狀態。
 - [MIRROR]意思為鏡面狀態。(→ 110)
 - 5 按[MENU](菜單)鈕，退出菜單。
 - 6 轉動液晶顯示監視器，直至其面向約180°為止。
 - 7 按拍攝開始/停止鈕①。
- 停止拍攝時
- 8 按拍攝開始/停止鈕①。

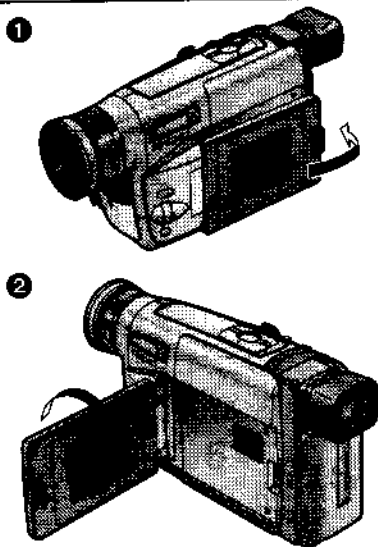
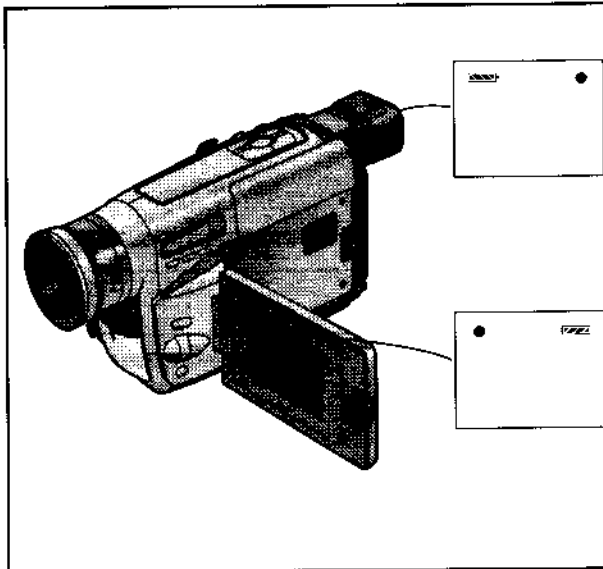
ENGLISH

Recording Yourself with the LCD Monitor Facing Forward (NV-VZ14/VZ15 only)

Turning the LCD Monitor so that it faces forward, allows you to aim the Movie Camera and view the picture in the Finder, while the persons in front of the camera can check the picture on the LCD Monitor during recording. If you mount the Movie Camera on a tripod and use the *Remote Controller, you can also take part in the action that you are recording and check the picture from the front on the LCD Monitor.

*Remote Controller: NV-VZ15 only

- 1 Slide the [▲OPEN] Lever to the left and simultaneously open the LCD Monitor in the direction of the arrow approximately 90°.
 - 2 Display the [DISPLAY SETUP] Sub-Menu. (→ 26)
 - 3 Turn the [▲▼] Dial to select [SELF SHOOT].
 - 4 Press the [SET] Button to select the desired mode ([NORMAL] or [MIRROR]).
 - [NORMAL] means Normal Mode.
 - [MIRROR] means Mirror Mode. (→ 110)
 - 5 Press the [MENU] Button to exit the menu.
 - 6 Turn the LCD Monitor until it faces forward approximately 180°.
 - 7 Press the Recording Start/Stop Button ①.
- Stopping Recording
- 8 Press the Recording Start/Stop Button ①.



中文

■ 鏡面狀態

當您將液晶顯示監視器朝前，進行自我攝影時，其所顯示的正在拍攝的畫面可能很難讓人適應。

這是因為我們已習慣於照鏡子，所以觀看鏡面圖像時的感覺比較自然。該攝錄影機具備鏡面狀態功能，可以如鏡面圖像一樣地顯示畫面。

然而，即使您已經選擇了鏡面狀態，也將以普通方法錄製畫面。

- 在鏡面狀態下進行拍攝時，將無法顯示和錄製日期、時間和/或題名指示。

在鏡面狀態下，只有下述指示才能被顯示在液晶顯示監視器和電子尋像器中：

- [●]: 拍攝狀態指示
- [||●]: 拍攝暫停狀態指示
- [▨]: 剩餘電池指示
- [□]: 一般警告/報警指示

當您打算確認其他指示時，請使液晶顯示監視器回到上圖所示的位置 ① 或 ②。

尤其當出現 [□] 指示時，須使液晶顯示監視器回到位置 ① 或 ②，以便能夠確認實際的警告/報警指示。

- 如果您轉動液晶顯示監視器，使其面朝前時，電子尋像器也會自動打開。然而，在下列情況下，電子尋像器會關閉：
 - 從攝錄影機狀態轉換至攝影機狀態。
 - 關閉液晶顯示監視器，使屏幕面朝外（如上圖 ① 所示）。

ENGLISH

■ Mirror Mode

When recording yourself with the LCD Monitor facing forward, the picture shown on it the way it is being recorded may be difficult to get used to.

This is because we usually look at ourselves in the mirror, so we see a mirror-image and this feels more natural. This Movie Camera features the Mirror Mode which displays the picture as a mirror-image.

However, even if you have selected in the Mirror Mode, the picture is recorded in the normal way.

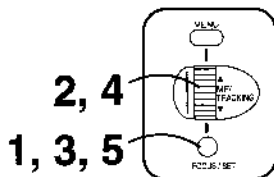
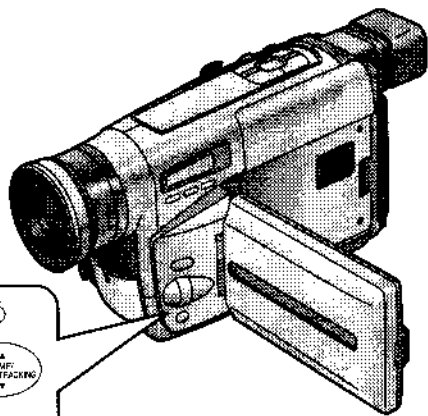
- It is not possible to display and record the Date, Time and/or Title Indication in the Mirror Mode.

In the Mirror Mode, only the following indications can be displayed on the LCD Monitor and in the Finder:

- [●]: Recording Mode Indication
- [||●]: Recording Pause Mode Indication
- [▨]: Remaining Battery Indication
- [□]: General Warning/Alarm Indication

When you want to confirm other indications, return the LCD Monitor to position ① or ② shown in the illustration above. Especially when the [□] Indication is displayed, be sure to return the LCD Monitor to position ① or ② so that you can confirm the actual Warning/Alarm Indication.

- If you turn the LCD Monitor so that it faces forward, the Finder also automatically turns on. However, in the following cases the Finder turns off:
 - Changing from the Camera to the VCR Mode.
 - Closing the LCD Monitor with the screen facing outward (shown above ①).



將編排好的題名插入畫面中進行拍攝時

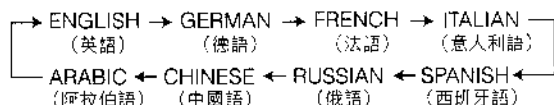
將編排好的題名插入畫面中進行拍攝時

您可將10個預編排好的題名之一插入拍攝的特別事件中，如婚禮或生日慶祝會等。這些題名可以使用8種語言。

選擇[TITLE SETUP] (標題設定) 子菜單上的[LANGUAGE FOR TITLE] (題名所用語言) ① 之後... (→ 26)

1 按[SET] (設定) 鈕，選擇需要的語言。

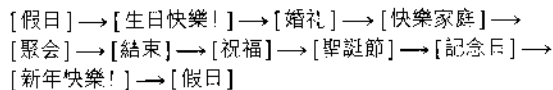
- 語言將依下列順序進行改變：



2 轉動[▲▼]環，選擇[TITLE] (題名) ②。

3 按[SET] 鈕，選擇需要的題名。

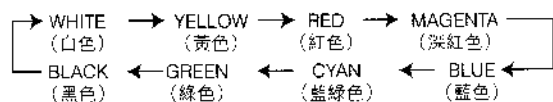
- 題名將依下列順序進行改變：
(在其他可使用的語言中，題名也是以同樣的順序排列。)



4 轉動[▲▼]環，選擇[COLOUR] (色彩) ③。

5 按[SET] 鈕，選擇需要的色彩。

- 您可從8種題名色彩中選擇任一種。
- 題名色彩將依下列順序進行改變：



ENGLISH

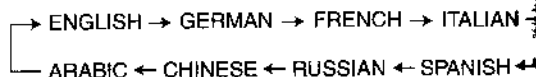
Recording with Pre-programmed Title Inserted in the Picture

You can insert one of 10 pre-programmed titles in recordings of special occasions such as weddings and birthday parties. These titles are available in 8 languages.

After selecting [LANGUAGE FOR TITLE] ① on the [TITLE SETUP] Sub-Menu... (→ 26)

1 Press the [SET] Button to select the desired language.

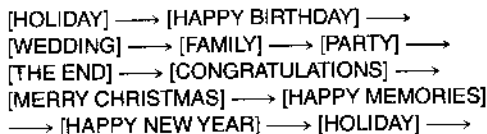
- The languages change in the following order:



2 Turn the [▲▼] Dial to select [TITLE] ②.

3 Press the [SET] Button to select the desired title.

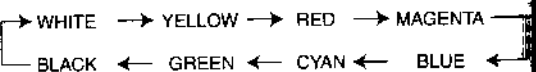
- The titles change in the order shown below.
(In the other available languages, they are arranged in same order.)

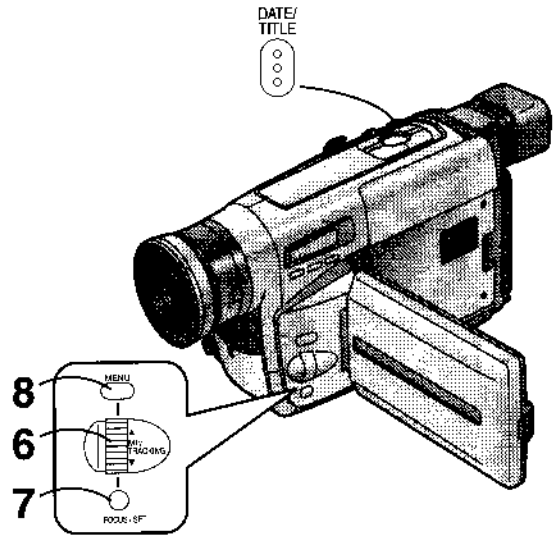
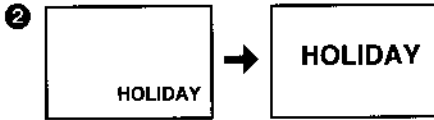
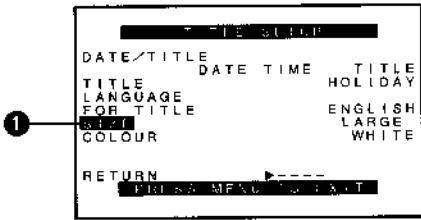


4 Turn the [▲▼] Dial to select [COLOUR] ③.

5 Press the [SET] Button to select the desired colour.

- You can select the colour of the title from among 8 colours.
- The colours for the title change in the following order:





中文

6 轉動 [▲▼] 環，選擇 [SIZE] (題名尺寸) ①。

7 按 [SET] (設定) 鈕，選擇需要的尺寸 ([NORMAL] (普通) 或 [LARGE] (大))。

- 您可從 2 種題名指示中選擇任一種尺寸。
- 當您將題名尺寸從 [NORMAL] 改為 [LARGE] 時，題名指示將如上 ② 所示，進行改變。

8 按 [MENU] (菜單) 鈕，退出菜單。

- 在顯示大尺寸的題名時，即使某些功能已被啟動，也可能無法顯示該功能對應的指示。
- 如果您在 [TITLE SETUP] (標題設定) 子菜單上的 [SIZE] 中選擇了 [LARGE]，在您開始和停止拍攝時總是短暫顯示的大字 [RECORD] (拍攝) 和 [PAUSE] (暫停) 指示將不顯示。
- 在您改變題名語言 (→ 112)，日期/時間/題名指示 (→ 48) 或者改變題名 (→ 112)、題名尺寸或其色彩 (→ 112) 後，退出 [TITLE SETUP] (標題設定) 子菜單時日期/時間/題名指示仍將顯示。

編排好的題名插入畫面中進行拍攝時

在拍攝中，按 [DATE/TITLE] (日期/題名) 鈕，使題名出現。

刪除題名時

按 [DATE/TITLE] 鈕，使題名消失。

ENGLISH

6 Turn the [▲▼] Dial to select [SIZE] ①.

7 Press the [SET] Button to select the desired size ([NORMAL] or [LARGE]).

- You can choose either of 2 sizes for the title.
- When you change the title size from [NORMAL] to [LARGE], the Title Indication changes as shown above ②.

8 Press the [MENU] Button to exit the menu.

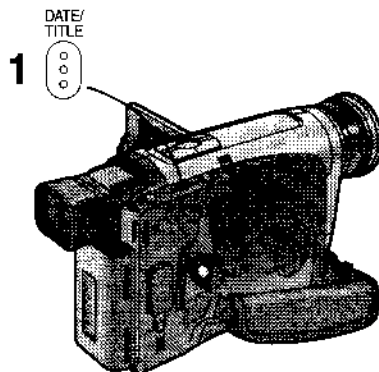
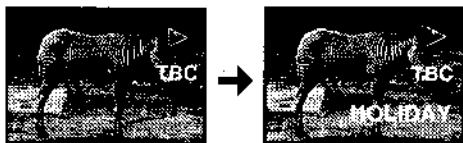
- When a large-size title is displayed, some indications do not appear even if the corresponding modes are activated.
- If you set [SIZE] on the [TITLE SETUP] Sub-Menu to [LARGE], the large [RECORD] and [PAUSE] Indications, which usually appear briefly when you start or stop recording, do not appear.
- The Date/Time/Title Indication remains displayed when you exit the [TITLE SETUP] Sub-Menu after having change the language of the title (→ 112), the type of Date/Time/Title Indication (→ 48), the title itself (→ 112), the size of the title (→ 112), or the colour of the title (→ 112).

Recording with Pre-programmed Title Inserted in the Picture

During recording, press the [DATE/TITLE] Button to make the title appear.

Deleting the Title

Press the [DATE/TITLE] Button to make the title disappear.



中文

放影中各種功能的使用

使用該攝錄影機時，您可在放影中，在已錄畫面上添加各種效果。當您將分別拍攝的場景編輯成完整的影像時，該功能特別便於創造性地強調某些場景。

1. 放影題名顯示
2. 放影數位效果 (→ 118)
3. 放影數位淡化 (→ 120)

只有在啟動TBC功能時，才能使用上述功能。請確認[TBC]指示已顯示。(→ 58)

放影題名指示

進行拍攝時，可以將日期/時間/題名指示插入圖像中(→ 48)。同樣，在放影(編輯)時，也可以將其插入圖像中。

您可以在[TITLE SETUP](標題設定)子菜單中選擇希望的語言、題名、色彩和尺寸。

只有在啟動TBC功能時，才能使用放影題名指示功能。請確認[TBC]指示已顯示。(→ 58)

1 放影中，按[DATE/TITLE](日期/題名)鈕，以重疊系統的日期/時間/題名指示。

- 使已經重疊的日期/時間/題名指示消失時，請再按[DATE/TITLE]鈕。
- 攝錄影機內藏時鐘可產生日期/時間指示。

ENGLISH

Using Various Functions during Playback

With this Movie Camera you can add various effects to the recorded picture during playback. This is especially convenient for creatively enhancing certain scenes when you edit individual recorded scenes into a finished video.

1. Playback Title Indication
2. Playback Digital Effects (→ 118)
3. Playback Digital Fade (→ 120)

You can use these functions only when the TBC Function is activated. Make sure that the [TBC] Indication is displayed. (→ 58)

Playback Title Indication

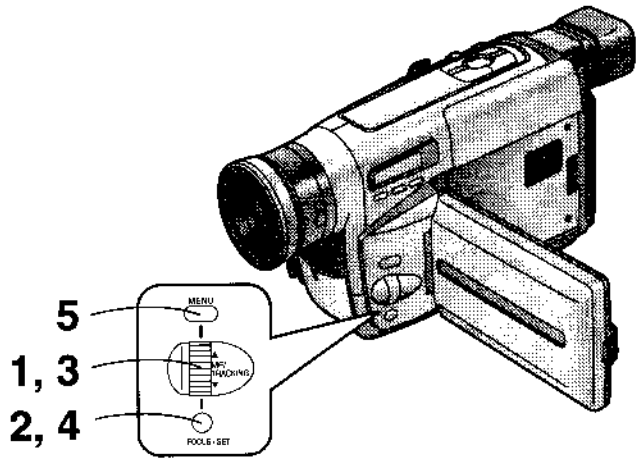
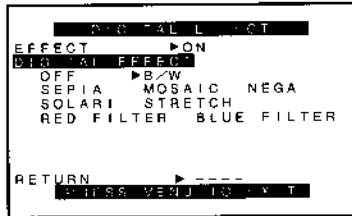
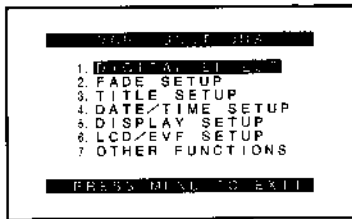
The Date/Time/Title Indication that can be inserted in the pictures during recording (→ 48) can also be inserted in the picture during playback (editing).

You can select the desired language, title, colour and size on the [TITLE SETUP] Sub-Menu.

The Playback Title Indication Function can be used only when the TBC Function is activated. Make sure that the [TBC] Indication is displayed. (→ 58)

1 During playback, press the [DATE/TITLE] Button to superimpose the desired Date/Time/Title Indication.

- To make the superimposed Date/Time/Title Indication disappear, press the [DATE/TITLE] Button again.
- The Date/Time Indication is generated by the Movie Camera's built-in clock.



中文

放影數位效果

本攝錄影機為您提供了多種不同的數位效果狀態，使您可以在放影時在所拍攝的畫面上添加特別的數位圖像效果。根據拍攝時的使用情況，數位效果被分為數位效果 (→ 72)。

只有在啟動 TBC 功能時，才能使用放影數位效果功能。請確認 [TBC] 指示已顯示。(→ 58)

- | | |
|----------------------|-----------------------|
| ① B/W (黑白狀態) | ② SEPIA (棕色狀態) |
| ③ MOSAIC (馬賽克狀態) | ④ NEGA (負片狀態) |
| ⑤ SOLARI (曝光過久狀態) | ⑥ STRETCH (加寬狀態) |
| ⑦ RED FILTER (紅色濾波器) | ⑧ BLUE FILTER (藍色濾波器) |

在顯示出 [DIGITAL EFFECT] (數碼功能) 子菜單後... (→ 26)

- 1 轉動 [▲▼] 環，選擇 [DIGITAL EFFECT] (數碼功能)。
- 2 按遙控器上的 [SET] (選擇) 鈕，選擇需要的數位效果。
- 3 轉動 [▲▼] 環，選擇 [EFFECT] (功能)。
- 4 按 [SET] 鈕，選擇 [ON]。
- 5 按 [MENU] (菜單) 鈕，退出菜單。

暫停數位效果時

將 [DIGITAL EFFECT] 子菜單上的 [EFFECT] 設定在 [OFF]。當數位效果暫時時，所選效果的指示將閃爍。

取消數位效果時

將 [DIGITAL EFFECT] (數碼功能) 子菜單上的 [DIGITAL EFFECT] 設定在 [OFF]。

- 如果您將 [CAMERA/OFF/VCR] 開關設置為 [OFF]，然後再重新將其設置為 [VCR]，先前選擇的放影數位效果將被自動取消。

ENGLISH

Playback Digital Effects

There are various modes available for adding special digital picture effects to your recordings during playback. They are identical to the Digital Effects (→ 72) that can be used during recording.

The Playback Digital Effect Function can be used only when TBC Function is activated. Make sure that the [TBC] Indication is displayed. (→ 58)

- | | | |
|--------------|---------------|-----------|
| ① B/W | ② SEPIA | ③ MOSAIC |
| ④ NEGA | ⑤ SOLARI | ⑥ STRETCH |
| ⑦ RED FILTER | ⑧ BLUE FILTER | |

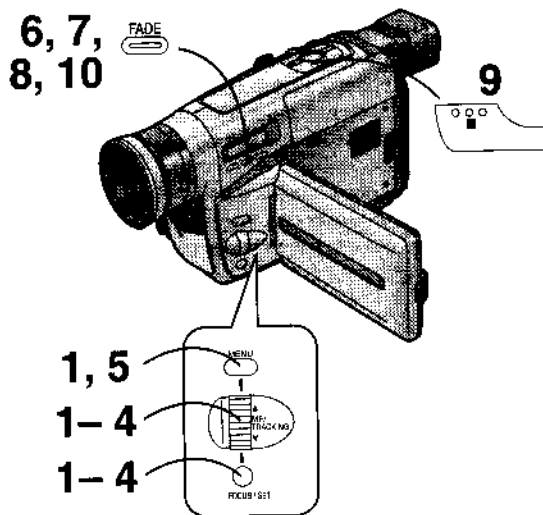
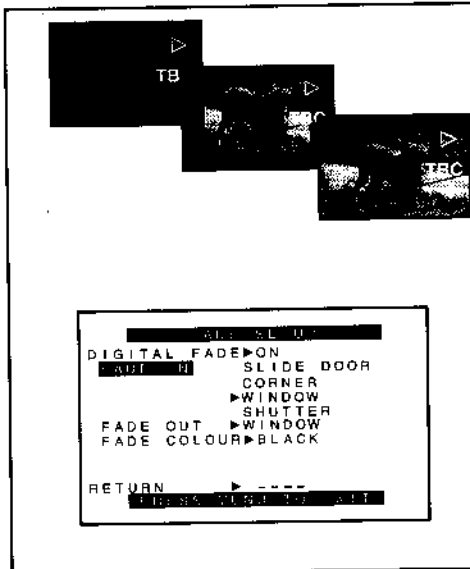
After displaying the [DIGITAL EFFECT] Sub-Menu... (→ 26)

- 1 Turn the [▲▼] Dial to select [DIGITAL EFFECT].
- 2 Press the [SET] Button to select the desired digital effect.
- 3 Turn the [▲▼] Dial to select [EFFECT].
- 4 Press the [SET] Button to select [ON].
- 5 Press the [MENU] Button to exit the menu.

Suspending the Playback Digital Effect Temporarily
Set [EFFECT] on the [DIGITAL EFFECT] Sub-Menu to [OFF]. When the digital effect is temporarily suspended, the indicator of the selected effect flashes.

Cancelling the Playback Digital Effect
Set [DIGITAL EFFECT] on the [DIGITAL EFFECT] Sub-Menu to [OFF].

- If you set the [CAMERA/OFF/VCR] Switch to [OFF] and then set it to [VCR] again, the previously selected Playback Digital Effect is automatically cancelled.



中文

放影數位淡化

有各種放影數位淡化狀態可供使用。它們與數位淡化狀態一樣，可用於拍攝。(→ 78)

只有在啟動TBC功能時，才能使用放影數位淡化狀態。請確認[TBC]指示已顯示。(→ 58)

- 1 將[FADE SETUP](淡化設定)子菜單上的[DIGITAL FADE](數位淡化)設定在[ON]。(→ 26)
- 2 將[FADE IN](淡入)設定在需要的數位淡化狀態。
- 3 將[FADE OUT](淡出)設定在需要的數位淡化狀態。
- 4 將[FADE COLOUR](淡化色彩)設定在需要的色彩。
 - 數位淡化色彩將以攝錄影機相同狀態的順序改變。(→ 78)
- 5 按[MENU](菜單)鈕，退出菜單。
- 6 在放影中，按住[FADE]鈕。
 - 畫面將依所選擇數位淡化效果而逐漸消失。
- 7 在您打算淡入之點，鬆開[FADE]鈕。
- 8 在放影中，在您打算淡出之點，按[FADE]鈕，並持續按住不放。
- 9 待畫面完全消失後，按[■]鈕。
 - 放影會停止。
- 10 鬆開[FADE]鈕。
 - 如果您將[CAMERA/OFF/VCR]開關設定在[OFF]，然後將其再次設定在[VCR]，以前所選擇的播放數位淡化功能將自動被取消。

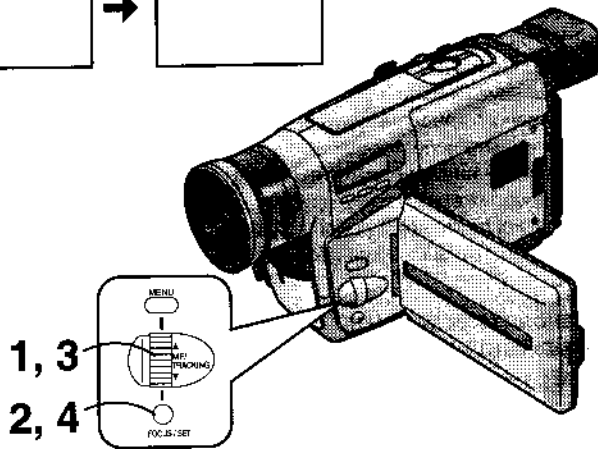
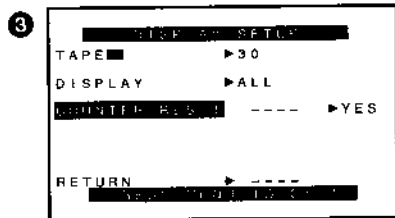
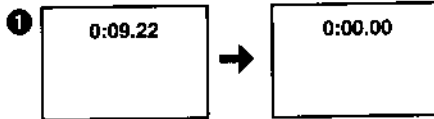
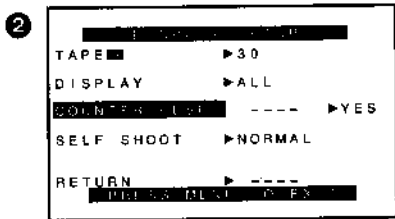
ENGLISH

Playback Digital Fade

There are various Playback Digital Fade Modes available. They are the same as the Digital Fade Modes that can be used for recording (→ 78).

The Playback Digital Fade Modes can be used only when the TBC Function is activated. Make sure that the [TBC] Indication is displayed. (→ 58)

- 1 Set [DIGITAL FADE] on the [FADE SETUP] Sub-Menu to [ON]. (→ 26)
- 2 Set [FADE IN] to the desired Digital Fade Mode.
- 3 Set [FADE OUT] to the desired Digital Fade Mode.
- 4 Set [FADE COLOUR] to the desired colour.
 - The colours of the Digital Fade change in the same order as Camera Mode. (→ 78)
- 5 Press the [MENU] Button to exit the menu.
- 6 During playback, keep the [FADE] Button pressed.
 - The picture disappears gradually with the selected digital fade effect.
- 7 Release the [FADE] Button at the point where you wish to fade in.
- 8 During playback, press the [FADE] Button at the point where you want to fade out, and keep it pressed.
- 9 After the picture has completely disappeared, press the [■] Button.
 - Playback stops.
- 10 Release the [FADE] Button.
 - If you set the [CAMERA/OFF/VCR] Switch to [OFF] and then set it to [VCR] again, the previously selected Playback Digital Fade is automatically cancelled.



中文

ENGLISH

使用磁帶計時器指示時

磁帶計時器便於下列兩個目的：檢查用過的磁帶時間(下述)和使用記憶停止功能(→ 126)。

檢查用過的磁帶時間時

在拍攝或放影時，磁帶計時器將顯示已經過的磁帶時間。您可以隨時將指示復位(使計時器回到[0:00.00] ❶)。這樣，在開始拍攝或播放時將計時器復位後，您就可以檢查從復位點開始已經過的磁帶時間。

在顯示出[DISPLAY SETUP](屏幕顯示設定)子菜單後... (→ 26)

- ❶ 轉動[▲▼]環，選擇[DISPLAY](計時器顯示)。
- ❷ 按[SET](設定)鈕，選擇[ALL](全部)。
- ❸ 轉動[▲▼]環，選擇[COUNTER RESET](計時器復原)。
- ❹ 按[SET]鈕，選擇[YES](是)。
 - 開始拍攝或放影時，將以小時、分鐘和秒鐘來表示用過的磁帶時間。在播放沒有錄影的部分時，該指示不會改變。
 - 當您倒帶超過磁帶計時器位置[0:00.00]時，磁帶計時器指示的前面會出現負號[-]。

- ❶ 攝影機狀態
- ❷ 攝影機狀態

Using the Tape Counter Indication

The Tape Counter Indication is convenient for the following 2 purposes: to check the Elapsed Tape Time (described below) and to use the Memory Stop Function (→ 126).

Checking the Elapsed Tape Time

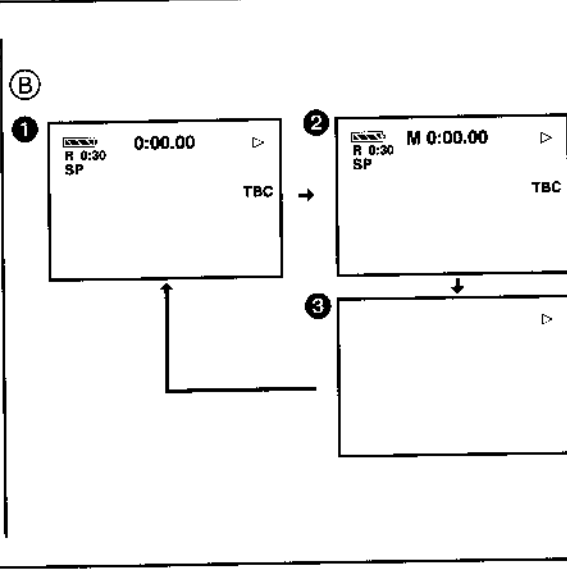
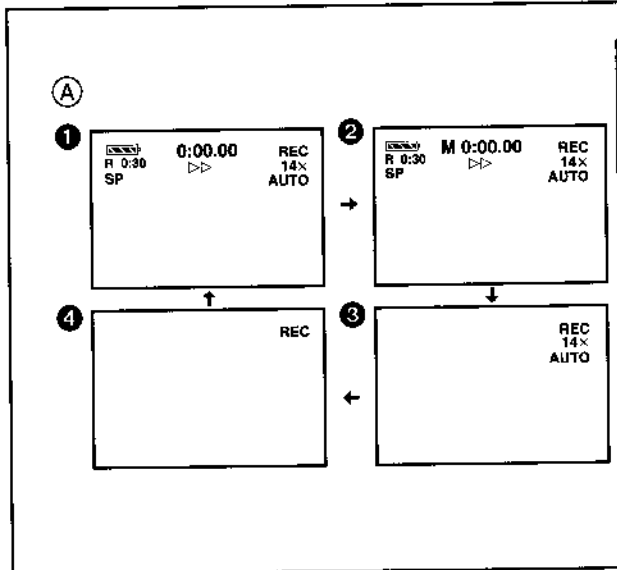
The Tape Counter Indication shows the elapsed tape time both during recording and playback.

You can freely reset this indication (return the counter to [0:00.00] ❶). Therefore, by resetting the counter to zero when you start recording or playback, you can check the tape time that has elapsed from that point.

After displaying the [DISPLAY SETUP] Sub-Menu... (→ 26)

- ❶ Turn the [▲▼] Dial to select [DISPLAY].
- ❷ Press the [SET] Button to select [ALL].
- ❸ Turn the [▲▼] Dial to select [COUNTER RESET].
- ❹ Press the [SET] Button to select [YES].
 - When recording or playback starts, the elapsed tape time is indicated in hours, minutes and seconds. During playback of parts of the tape on which no recording has been made, this indication does not change.
 - If you rewind the tape further than the tape counter position [0:00.00], the minus sign [-] appears in front of the Tape Counter Indication.

- ❶: Camera Mode
- ❷: VCR Mode



中文

■ 磁帶計時器指示的改變

通過改變 [VCR FUNCTIONS] (錄像功能) 主菜單或 [CAMERA FUNCTIONS] (攝像功能) 主菜單上 [DISPLAY SETUP] (屏幕顯示設定) 子菜單中的 [DISPLAY] (計時器顯示狀態) 的設置，可以依上圖 ①-④ 所示改變計時器顯示狀態。

攝錄影機狀態 (A)

- ① ALL: 用過的磁帶時間指示 (初始設定)
- ② MEMORY: 記憶停止指示和用過的磁帶時間指示 (→ 126)
- ③ PARTIAL: 無計時器指示
僅會顯示幾個指示，以便能夠清晰地看見畫面的所有部分。然而，當您打開攝錄影機時，所有的指示起初會出現幾秒鐘，以告訴您所選擇的設定內容。
● 這時，如果您將攝錄影機切換至放影機狀態，然後再切換回攝錄影機狀態，磁帶計時器指示將被自動選擇為 [ALL]。
- ④ OFF: 無計時器指示
在此狀態下，僅會出現操作狀態指示和警告/報警指示。然而，當打開攝錄影機時，所有的指示會出現幾秒鐘，以告訴您選擇了甚麼設定。

放影機狀態 (B)

- ① ALL: 用過的磁帶時間指示 (初始設定)
- ② MEMORY: 記憶停止指示和用過的磁帶時間指示 (→ 126)
- ③ OFF: 無計時器指示
在此狀態下，僅會出現操作狀態、警告/報警、插入編輯狀態和音頻拷貝狀態的指示。

ENGLISH

■ Changing the Tape Counter Indication

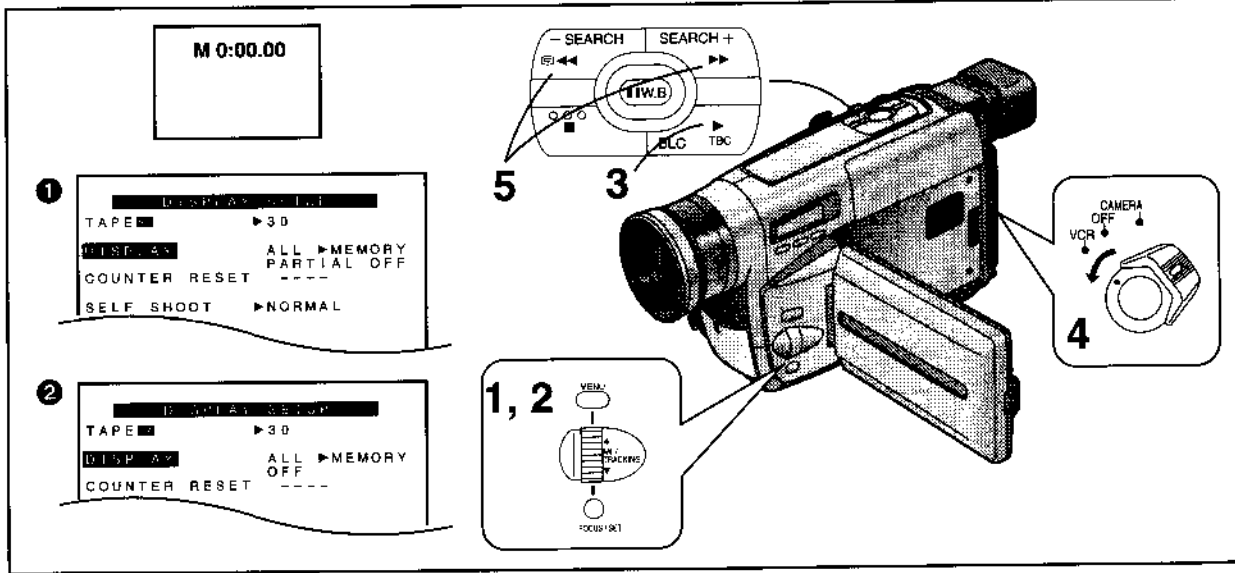
By changing the setting for [DISPLAY] on the [DISPLAY SETUP] Sub-Menu of the [VCR FUNCTIONS] or the [CAMERA FUNCTIONS] Main-Menu, the Counter Display Mode can be changed in the order shown in the above illustrations ①-④.

Camera Mode (A)

- ① ALL: Elapsed Tape Time Indication (initial setting)
- ② MEMORY: Memory Stop Indication and Elapsed Tape Time Indication (→ 126)
- ③ PARTIAL: No Counter Indication
Only a few indications are displayed so that all parts of the picture can be seen clearly. However, when you turn on the Movie Camera, all indications initially appear for a few seconds to inform you of the selected settings.
● In this condition, if you switch the Movie Camera over to the VCR Mode and then back to the Camera Mode, [ALL] automatically selected for the Tape Counter Indication.
- ④ OFF: No Counter Indication
In this mode, only the Operation Mode Indications and Warning/Alarm Indications can appear. However, when turning on the Movie Camera, all indications appear for a few seconds to inform you of the selected settings.

VCR Mode (B)

- ① ALL: Elapsed Tape Time Indication (initial setting)
- ② MEMORY: Memory Stop Indication and Elapsed Tape Time Indication (→ 126)
- ③ OFF: No Counter Indication
In this mode, only the Operation Mode, Warning/Alarm, Insert Editing Mode and Audio Dubbing Mode Indications can appear.



中文

使用記憶停止功能時

該功能便於在拍攝或放影中臨時給錄影帶位置作上標記，使您以後能夠再次簡單地尋找到該位置，以進行放影。

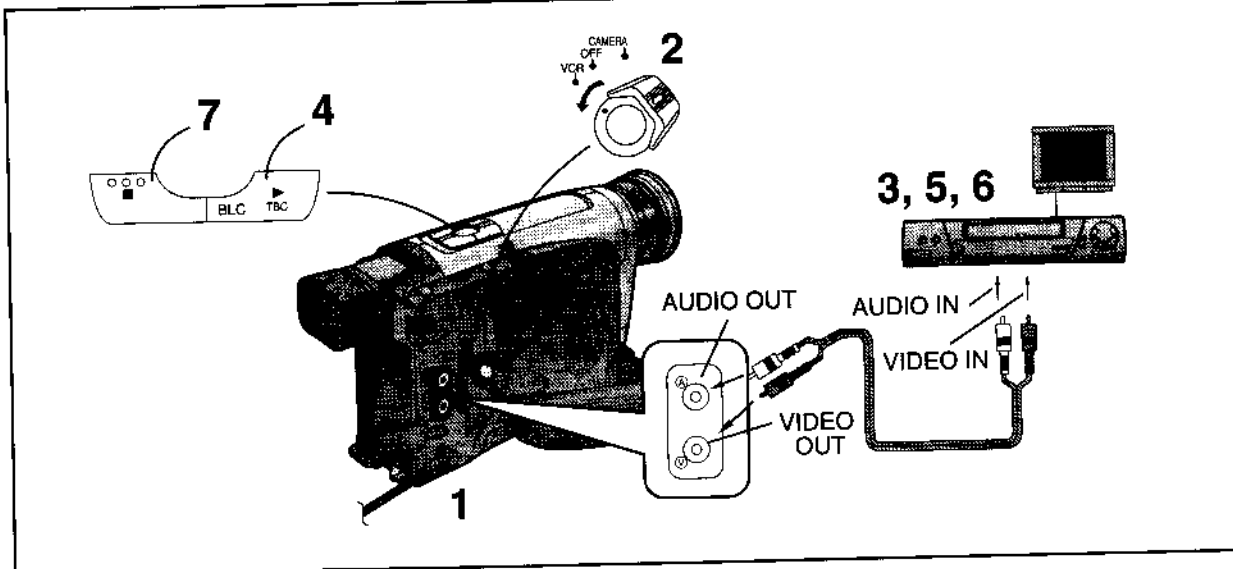
- 1 在您以後打算播放的磁帶位置，使磁帶計時器復原至零。(→ 122)
- 2 將[CAMERA FUNCTIONS](攝像功能)主菜單①或[VCR FUNCTIONS](录像功能)主菜單②上[DISPLAY SETUP](屏幕显示設定)子菜單中的[DISPLAY](計時器顯示狀態)設置在[MEMORY](記憶)。
- 3 開始放影或拍攝。
- 4 在放影或拍攝結束後：
將[CAMERA/OFF/VCR]開關設置在[VCR]。
- 5 按[▶▶]或[◀◀]鈕。
在您將計時器復原至零的大致位置，錄影帶會自動停止。

ENGLISH

Using the Memory Stop Function

This function is convenient for temporarily marking a tape position during recording or playback so that you can easily find it again later for playback.

- 1 Reset the Tape Counter to zero at the tape position from which you want to play back later. (→ 122)
- 2 Set [DISPLAY] on the [DISPLAY SETUP] Sub-Menu of the [CAMERA FUNCTIONS] ① or the [VCR FUNCTIONS] Main-Menu ② to [MEMORY].
- 3 Start playback or recording.
- 4 After playback or recording is finished:
Set the [CAMERA/OFF/VCR] Switch to [VCR].
- 5 Press the [▶▶] or [◀◀] Button.
The tape automatically stops approximately at the position at which you reset the counter to zero.



拷貝 (複製)

連接音頻/影像纜線 (另行購買) 時, 可以用該攝錄影機, 將已錄的錄影帶複製在 VCR (錄影機) 上。

- 1 連接交流轉接器。
- 2 將已拍攝錄影帶裝入攝, 使其處於放影機狀態。
- 3 將未錄錄影帶裝入 VCR, 使其處於拍攝暫停狀態。
- 4 開始攝錄影機的放影。
- 5 開始 VCR 的錄影。
- 6 在到達原來拍攝的結尾時:
停止 VCR 的錄影。
- 7 停止攝錄影機的放影。

- 由於拷貝錄影帶的畫面質量略有降低, 所以建議您選擇標準速度 (SP 狀態) 進行拷貝。
(SP 意思為標準放影。)
- 如果您的 VCR 具備編輯開關, 請將其啟動。這樣, 使可確保拷貝錄影帶的最佳畫面質量。

ENGLISH

Dubbing (Copying)

By connecting the AV Cable (purchase separately), you can copy the cassette recorded with this Movie Camera onto a VCR.

- 1 Connect the AC Adaptor.
- 2 Insert the recorded cassette into the Movie Camera and put it in the VCR Mode.
- 3 Insert an unrecorded cassette into the VCR and put it in the Recording Pause Mode.
- 4 Start playback on the Movie Camera.
- 5 Start recording on the VCR.
- 6 After reaching the end of the original recording:
Stop recording on the VCR.
- 7 Stop playback on the Movie Camera.

- As the picture quality on the dubbed cassette is slightly reduced, we recommend that you select the standard speed (SP Mode) on the VCR for dubbing.
(SP means Standard Play.)
- If your VCR is equipped with an Edit Switch, turn it on to ensure optimum picture quality of the dubbed cassette.

注意事項

攝錄影機的注意事項

如果發生操作異常(例如：本機冒煙或發出異味)，請立即停止使用本機，並與專業維修人員洽詢。

■ 為了防止火災、觸電和功能失常，請遵守下列各點：

- 祇能使用所推薦的附件。
- 勿拆卸攝錄影機或進行任何改裝。
- 勿使其濺水及觸及沙子。
- 請注意不要讓水(尤其是海水)或灰塵進入攝錄影機內。如果不慎讓海水濺到攝錄影機上，請將一塊軟布用清水浸濕並充分擰乾後，用其仔細擦拭攝錄影機機體。然後，再用一塊乾燥的軟布將機體整體徹底擦拭。
- 勿塞入任何異物。
- 使用中，勿用布蓋住。
- 勿使其受到強烈的振動或機械衝擊。
- 勿在有油煙或灰塵過多之處使用。
- 當雷電接近時，請停止使用攝錄影機。(如果正在使用交流轉接器，請將其從交流電源插座上拔下。)
- 勿在磁性設備附近使用。
- 勿靠近收音機或電視機使用。
- 勿在程控電話附近使用，否則，可能會導致雜訊而對畫面和聲音產生不利影響。
- 使用中，勿使磁帶盒艙朝下。
- 切勿將鏡頭或電子尋像器直接對準太陽。否則：鏡頭會聚集光線而發熱，從而損壞內部精密零件，並為攝錄影機造成無法挽回的損失。
- 勿將其置於夏天封閉的汽車內。內部高溫之高可能會超過您的想像，從而可能會損害攝錄影機。
- 勿用水清洗。
水可能會漏入攝錄影機，並引起觸電或火災。
- 勿使用清潔劑、揮發劑、酒精、稀釋劑或其他化學藥品進行清潔。這些物質不僅會改變攝錄影機機殼的色彩或損壞表面，而且，如果附近有明火或加熱器時，還可能增加火災危險。
- 絕對勿將攝錄影機置於高溫之下。

■ 攝錄影機的存放注意事項

存放之前，請取出錄影帶和電池。

避免存放於下列場所：

- 高溫或高濕之處
推薦溫度：15°C–25°C
推薦濕度：40%–60%
- 暴露在直射陽光之處
- 直接與橡膠或塑料物品長期接觸之處
- 兒童可觸摸之處

交流轉接器的注意事項

■ 請遵守下列各點：

- 只能用於指定的攝錄影機和電池。
- 勿用濕手進行處理。
拔掉交流電源纜線時，請握住插頭外拉，而不要拉扯電源纜線。
- 請勿過分彎折或改造電源線。
- 不能過於靠近收音機、電視機等進行操作。

Precautions

Precautions for the Movie Camera

In the event of abnormal operation (e.g. if the unit emits smoke or an unusual smell), immediately stop operating the unit and consult qualified service personnel.

For Australia or New Zealand:

Consult the Panasonic Customer Care Centre on 132600.

■ To prevent fire, electric shock and malfunction, observe the following points:

- Use only the recommended accessories.
- Do not disassemble the Movie Camera or make any alterations to it.
- Protect against spray water and sand.
- Take care that water splashes (especially seawater) or dust do not enter the Movie Camera. If seawater has accidentally splashed onto the Movie Camera, moisten a soft cloth with tap water, wring it out well and carefully wipe the camera body with it. Then thoroughly wipe it with a soft, dry cloth.
- Do not insert any foreign objects.
- Do not cover with a cloth during use.
- Do not subject to strong vibrations or mechanical shocks.
- Do not use in places with oily smoke and a lot of dust.
- If a thunderstorm approaches, stop using the Movie Camera. (If you are using the AC Adaptor, disconnect it from the AC mains socket taking care not to touch any metal parts.)
- Do not use near magnetized equipment.
- Do not use near a radio or TV.
- Do not use near a cell phone because doing so may cause noise to adversely affect the picture and sound.
- Do not use with the cassette compartment facing down.
- Do not aim the Lens or Finder directly at the sun; the lens collects light and the resulting heat could deform internal precision parts and cause irreparable damage to the Movie Camera.
- Do not leave in a closed car on a summer day. The inside temperature becomes higher than you imagine and this could damage the Movie Camera.
- Do not wash with water. Water might leak into the Movie Camera and cause an electric shock or fire.
- Do not use a cleaning fluid, benzine, alcohol, thinner or other chemicals for cleaning. They might not only change the color and damage the surface of the camera body, but might also increase the risk of fire if there is an open flame or heater nearby.
- Never leave the Movie Camera in places with high temperature.

■ Precautions for Storing the Movie Camera

Be sure to take out the cassette and remove the Battery before storing.

Avoid the following places:

- Places with high temperature and high relative humidity
Recommended temperature: 15°C–25°C
Recommended relative humidity: 40%–60%
- Places exposed to direct sunlight
- In direct contact with rubber or plastic products for a long time
- In reach of children

Precautions for the AC Adaptor

■ Observe the following points:

- Use only for the specified Movie Camera and Battery.
- Do not handle with wet hands.
To unplug the AC Mains Lead, be sure to pull it out by the plug not by the cable.
- Do not forcefully bend the cables or alter them.
- Do not operate very close to a radio, TV etc.

電池的注意事項

電池之所以能產生電能，是以化學反應為基礎的。如果對電池處理不當，則可能引起漏電、溫度過高，甚至發生火災或爆炸。

■ 請遵守下列各點：

- 給電池充電時，祇能使用規定的交流適配器，且祇能使用該攝錄影機專用電池。
- 攝錄影機使用結束後，請取出電池。
如果將電池留在攝錄影機內，即使將 [CAMERA/OFF/VCR] 開關設至 [OFF]，也仍將消耗少量電力，且會減少電池的電量。如果將電池放在攝錄影機內時間過長，可能使其過度放電，則可能導致無法充電。
- 勿讓鑰匙、項鍊之類的金屬物體與電池端子相碰。
否則會發生短路，並發熱，從而引起電池爆炸。當儲存或將電池放在背包中攜帶時，應特別小心。
- 勿使電池變形或改造電池。
- 即使正確地充電後，用於平常使用的操作時間也太短時，說明電池已經到達其使用壽命。
- 若電池過熱，保護功能會啟動，將使電池暫時停止操作。
- 勿將電池投入火中。
否則可能會引起爆炸。

■ 電池的儲存注意事項

避免置於下列場所，否則將縮短電池的使用壽命：

- 置於特別高溫或高濕之處
推薦溫度：15°C–25°C
推薦濕度：40%–60%
- 置於油煙和灰塵過多之處
電池端子將生鏽。
- 如果長時間儲存電池時，請進行放影或其他操作，使電池的剩餘電量完全用光。然後將其從攝錄影機中取出，並存放起來。建議您約每年重新啟用一次電池，將其充電，然後在重新存放之前，將其用盡。

錄影帶的注意事項

當您結束使用攝錄影機時，請將錄影帶倒轉到頭，並將其從攝錄影機中取出。如果長時間存放錄影帶時，至少每年應將其快進然後倒帶一次，以使錄影帶接觸到新鮮空氣。

為了防止錄影帶盒變形和畫面和音質的降低，請遵守下列各點。

- 勿讓錄影帶遭受強烈振動或機械衝擊。
- 勿置於磁性設備附近。
- 避免溫度將可能昇得太高之處。

Precautions for the Battery

The Battery's ability to generate electric energy is based on a chemical reaction. If the Battery is incorrectly handled, it could cause leakage, excessive rise in temperature, fire or explosion.

■ Observe the Following Points:

- Use only the specified AC Adaptor to charge the Battery, and use the Battery only for this Movie Camera.
- When you have finished using the Movie Camera, be sure to remove the Battery.
If you leave the Battery attached to the Movie Camera, a small amount of electricity is consumed even if the [CAMERA/OFF/VCR] Switch is set to [OFF], and this reduces the Battery's charge. Leaving the Battery attached to the Movie Camera for a very long time could discharge it excessively and this could make charging impossible.
- Do not allow metal objects such as keys and necklaces to touch the battery terminals.
Short-circuiting may occur and generate heat, and this could cause the Battery to explode. Be especially careful when storing or carrying the Battery in a bag.
- Do not deform or alter the Battery.
- When the operation time even after proper charging is too short for normal use, the service life of the Battery has reached its end.
- If the Battery becomes too warm, a protection function is activated and it puts the Battery temporarily out of operation.
- Do not throw the Battery into a fire.
This could cause it to explode.

■ Precautions for Storing the Battery

Avoid the following places, as they could shorten the service life of the Battery:

- Places with extremely high temperature and high relative humidity
Recommended temperature: 15°C–25°C
Recommended relative humidity: 40%–60%
- Places with oily smoke and a lot of dust
The terminals of the Battery might rust.
- Before you store the Battery for a long time, perform playback or other operations to completely use up the remaining charge in the Battery. Then remove it from the Movie Camera and store it. We recommend that you reactivate the Battery about once a year by charging it and then completely using up the charge before storing it again.

Precautions for the Cassette

When you have finished using the Movie Camera, rewind the tape to the beginning and take the cassette out of the Movie Camera. If you store the cassette for a long time, fast-forward and then rewind it at least once a year to expose the tape to fresh air.

- Observe the following points to prevent deformation of the cassette case and deterioration of the picture and sound quality.
- Do not subject the cassette to strong vibration or mechanical shocks.
 - Do not place it near magnetized equipment.
 - Avoid places where the temperature can become very high.

凝結濕氣的原因和處理方法

當攝錄影機內部和錄影帶上已經凝結了濕氣時，不僅無法進行拍攝，而且，錄影帶還可能與磁頭保持接觸，從而導致攝錄影機損壞。

■ 凝結濕氣的主要原因

- 將攝錄影機突然從冷環境移到熱環境時。
- 將攝錄影機從有空調的汽車和房屋內，拿到室外時。
- 當在冷房間中打開加熱器時。
- 當攝錄影機擺在空調機的冷風之下時。
- 當攝錄影機處於有蒸氣、非常熱或很潮濕的地方時。

■ 凝結濕氣的症狀

當打開攝錄影機電源，凝結濕氣指示 [] 會出現於電子尋像器中。(幾秒鐘後，攝錄影機將自動關閉電源。)

■ 處理方法如下：

1. 取出錄影帶。
2. 讓磁帶室打開，並等待幾小時。
3. 等幾個小時後，再打開攝錄影機並確認濕氣指示是否還顯示。
為了確保安全，請再等 1 小時左右。

■ 為了防止凝結濕氣

將攝錄影機從非常冷的環境帶到熱地方時，應該將攝錄影機放入密封的塑料袋或類似物品內，保存 1 ~ 2 個小時後再加使用。

■ 當鏡頭上出現霧氣時

請打開攝錄影機，等待 1 小時左右，直到攝錄影機已經達到與環境相同的溫度為止。

影像磁頭髒污和處理方法

如果影像磁頭被灰塵弄髒時，畫質會降低。

■ 影像磁頭髒污的症狀

- 打開攝錄影機時，在 [] 指示會出現。
- 當在攝錄影機上放影，並在連接的電視機上觀看畫面時，畫面上出現白色雜波條紋。然而，如果磁頭特別髒時，則可能完全看不見畫面。

■ 處理方法如下：

請用影像磁頭清潔錄影帶，來清潔磁頭。
要小心地依說明書進行操作。否則，清潔過多可能會磨損磁頭。
若清潔後，播放的畫面仍不清晰，這說明影像磁頭已經磨損。請諮詢專業維修人員。

Causes of Condensation and Remedy

When condensation has formed inside the Movie Camera and on the tape, recording becomes impossible. In addition, the tape might remain in contact with the heads and this could seriously damage the Movie Camera.

■ Main Causes of Condensation

- When the Movie Camera is brought from a cold to a warm place.
- When the Movie Camera is taken outdoors from inside an air-conditioned car or house.
- When the heating is turned on in a cold room.
- When the Movie Camera is exposed to the cold breeze from an air-conditioner.
- When the Movie Camera is in a very hot or humid place or in a place with steam.

■ Symptoms of Condensation

When turning on the Movie Camera, the Condensation Indication [] appears.
(A few seconds later, the Movie Camera automatically turns itself off.)

■ Remedy as Follows:

1. Take out the cassette.
2. Keep the Cassette Compartment open and wait a few hours.
3. A few hours later, turn on the Movie Camera and confirm that the Condensation Indication is not displayed any more.
For added safety, wait about 1 more hour.

■ To Prevent Condensation from Forming

When bringing the Movie Camera from a very cold to a warm place, keep it in a tightly closed plastic bag or something similar for 1 to 2 hours before using it again.

■ When the Lens Is Fogged up

Turn the Movie Camera on and wait for about 1 hour until it has reached about the same temperature as its surroundings.

Video Head Clogging and Remedy

If the video heads become dirty and clogged with dust, the picture quality deteriorates.

■ Symptoms of Dirty Video Heads

- When turning on the Movie Camera, the [] indication appears.
- When playing back a cassette on the Movie Camera and watching the picture on a connected TV, white noise bars appear in the picture. However, if the heads are extremely dirty, the playback picture cannot be seen at all.

■ Remedy as Follows:

Use a video head cleaning cassette to clean the heads. Carefully follow the instructions for its use as too much cleaning wears down the heads. If the playback picture is not clear after cleaning, it means that the video heads are worn out. Consult qualified service personnel.

白色平衡(色調)調節的工作原理

影像拍攝是在各種不同的光源下進行：從作為主要自然光源的陽光，至範圍廣泛的人工光源，如熒光燈等。由於這些都各有不同的色溫，因此會給目標物的色彩帶來微妙的色調差異。

人眼可以輕易地適應各種光源，甚至在不同的光線下，也能識別具有同樣色彩的目標物。

然而，攝錄影機的眼睛(鏡頭)還無法適應光線變化和照明影響。所以，根據光源不同，拍攝的畫面可能會偏藍或泛紅。為了使光線影響減至最低，需要進行所謂的白色平衡調節。

■ 自動白色平衡

該攝錄影機可提供自動白色平衡調節和手動白色平衡調節。當攝錄影機處於全自動狀態時，攝錄影機的內部系統會自動決定光源的溫度，並對目標物的色調進行相應的補償。白色是決定色調的基本色彩。由於此調節是以白色為基礎而進行的，所以被稱為白色平衡調節。幾種光源的最佳設定被儲存在攝錄影機的記憶中。內部微電腦會將來自攝錄影機前部的白色平衡傳感器接收的光源色溫，與記憶中儲存的色彩進行比較，選擇用於最接近之色調的設定值。

請勿用手遮住白色平衡傳感器(→ 12)。

■ 手動白色平衡

儘管該攝錄影機在記憶中儲存了幾個光源的最佳設定值，可正確地判斷白色，但是卻無法應付所有的光源。所以，在無法用自動白色平衡調節進行正確調節的光源類型(→ 90, 92)下拍攝時，請使用手動白色平衡調節。(→ 90)

聚焦調節的工作原理

如果您用放大鏡觀看目標物，使其靠近或離開您的眼睛時，將會找到目標物清晰可見的一點。聚好焦或已聚焦意味著可以最清晰和鮮明地看見目標物。鏡頭與光線能聚焦在一點之間的距離，稱為焦距或聚焦長度，它取決於鏡頭的尺寸和形狀。

人眼也有鏡頭，當我們觀看距離不同的目標物時，這些鏡頭的形狀會自動改變，使我們總能看清這些目標物。

■ 自動聚焦調節

目標物的圖像通過鏡頭進入攝錄影機，然後被轉換為電子信號(影像信號)錄製在錄影帶上。以此信號為基礎，自動聚焦系統將自動前後移動聚焦鏡頭來調節焦距。

將聚焦調節電子尋像器中央部分的目標物。

How the White Balance (Tint) Adjustment Works

Video recording takes place under various light sources, from sunlight as the main natural light source to a wide range of artificial light sources such as fluorescent lamps. As each of these light sources has a different colour temperature, each of them gives the colours of the subject a slightly different tint. Human eyes can easily adjust to different kinds of lighting and recognize an object as having the same colour, even under different light sources.

The eye of the Movie Camera (lens), however, cannot adapt to the change in lighting and is influenced by the lighting.

Therefore, depending on the light source, the picture would be recorded with a bluish or reddish tint. To minimize the influence of the lighting on the colours of the subject, an adjustment called White Balance Adjustment is necessary.

■ Auto White Balance

This Movie Camera offers both Auto White Balance Adjustment and Manual White Balance Adjustment. When the Movie Camera is in the Full Auto Mode, the internal system of the Movie Camera automatically determines the temperature of the light and compensates the tint of the subject accordingly. White is the basic colour by which the tint is determined. Because the adjustment is performed based on the white colour, it is called White Balance Adjustment. The optimum settings for several light sources are stored in the memory of the Movie Camera. The internal microcomputer compares the colour temperature of the light received by the White Balance Sensor positioned on the front of the Movie Camera with the colour stored in memory and selects the setting for the most similar tint.

Be careful not to cover the White Balance Sensor (→ 12) with your hand, etc.

■ Manual White Balance

Although this Movie Camera stores the optimum settings for several light sources in memory to correctly judge the white colour, it cannot cope with all light sources. Therefore, to record under those types of lighting (→ 90, 92) which cannot be correctly adjusted with Auto White Balance Adjustment, use Manual White Balance Adjustment. (→ 90)

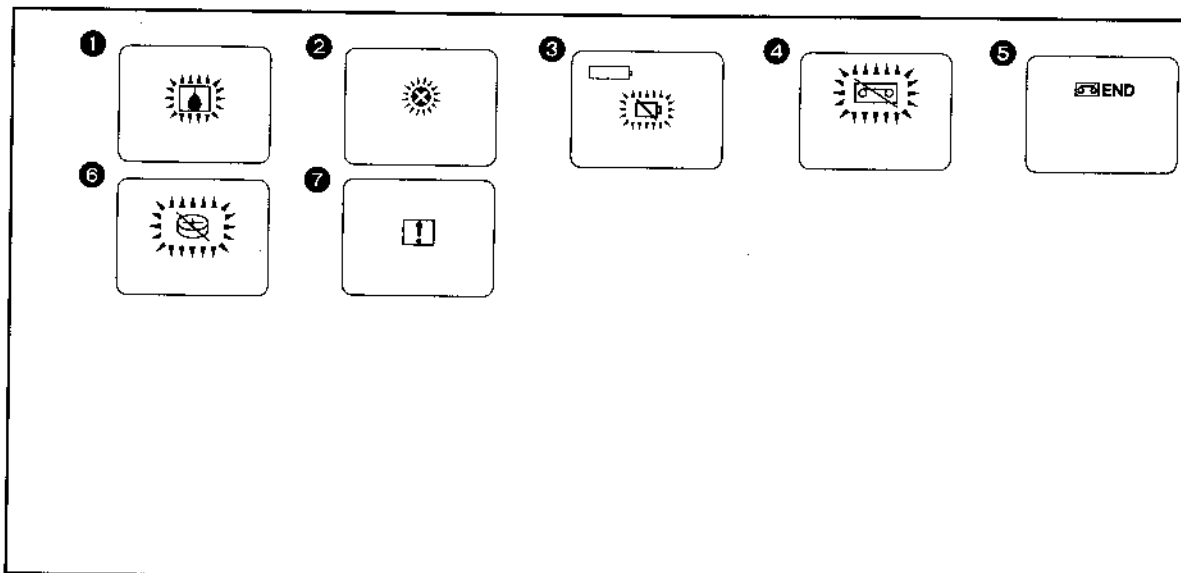
How the Focus Adjustment Works

If you look at an object through a magnifying glass and move closer or further away from your eye, you will reach a point where the object becomes clearly visible. Being focused or in focus means that the subject can be seen with optimum clarity and sharpness. The distance between the lens and the point where the rays of light come together is called Focal Distance, Focal Length and depends on the size and shape of the lens. Human eyes have lenses too, and when we look at objects at different distances, the shape of these lenses changes automatically so that we can always see the objects clearly.

■ Auto Focus Adjustment

The image of the subject enters the Movie Camera through the lens and is converted into an electrical signal (video signal) recording onto tape. Based on this signal, the Auto Focus System automatically adjusts the focal distance by moving the focusing lens forward or backward.

The focus is adjusted on the subject in the centre of the Field of View.



中文

尋像器指示

■ 警告 / 報警指示

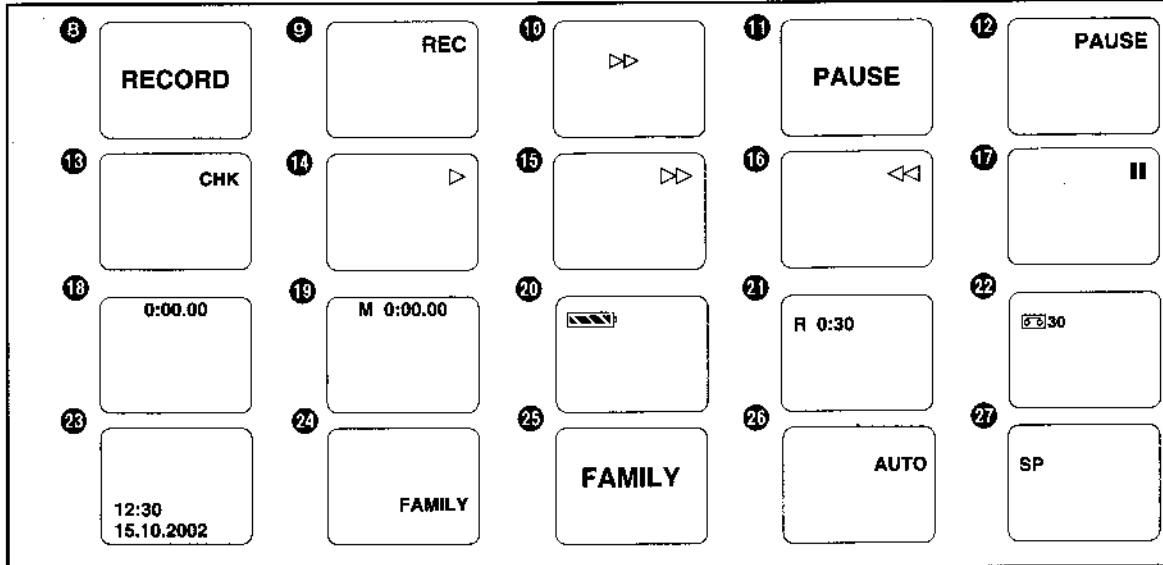
- ① 凝結濕氣 (→ 134)
- ② 影像磁頭髒污 (→ 134)
- ③ 剩餘電池電力
當電池電力耗盡時，攝錄影機將自動關機。請換上一個充足電的電池。
- ④ 錄影帶 (→ 40)
未插入錄影帶。或插入錄影帶上的保險片被去掉。請插入保險片完好的錄影帶。
- ⑤ 錄影帶盡頭
當錄影帶走到盡頭時，會出現該指示。請插入新的錄影帶。
- ⑥ 內置時鐘電池
如果內置時鐘電池已耗盡，則無法將日期和時間儲存在記憶中。有關更換情況，請諮詢您的經銷商，或者在開始拍攝之前，設定日期和時間。(→ 46)
- ⑦ 一般警告 / 報警指示 (僅限於 NV-VZ14/VZ15)
如果您在液晶顯示監視器朝向前方時，使用鏡面狀態 (→ 110) 進行拍攝，將出現此指示，已取代實際的警告 / 報警指示。

ENGLISH

Indications



■ Warning/Alarm Indications

- ① Condensation (→ 134)
- ② Video Head Clogging (→ 134)
- ③ Remaining Battery Power
When the remaining battery power is used up, the Movie Camera automatically switches off. Replace the Battery with a fully charged one.
- ④ Cassette (→ 40)
No cassette is inserted. Or the tab of the inserted cassette is broken out. Insert a cassette with an intact tab.
- ⑤ End of the Tape
When the tape has reached its end, this indication appears. Insert a new cassette.
- ⑥ Built-in Clock Battery
The Date and Time cannot be stored in memory if the built-in clock battery is exhausted. Consult your dealer for replacement, or set the Date and Time as necessary before you start recording. (→ 46)
- ⑦ General Warning/Alarm Indication (NV-VZ14/VZ15 only)
If you record with the LCD Monitor facing forward using the Mirror Mode (→ 110), this indication appears instead of the actual Warning/Alarm indication.





中文

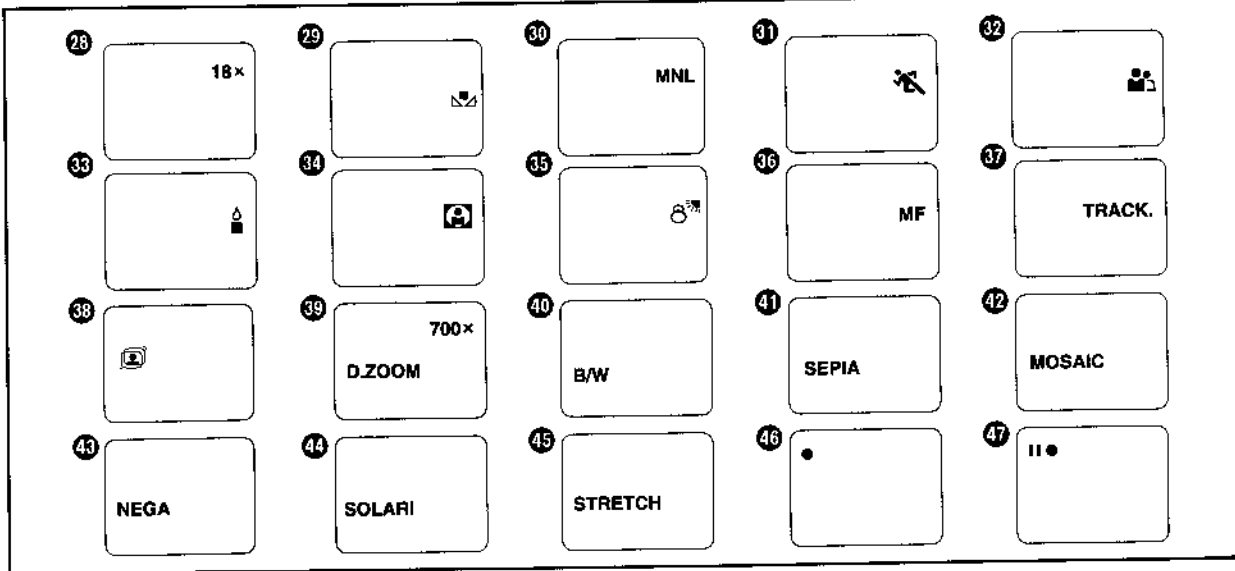
■ 拍攝和放影指示

- 8 拍攝狀態 (大的指示) (→ 50)
- 9 拍攝狀態 (小的指示) (→ 50)
- 10 錄影帶運行狀態 (→ 50)
- 11 拍攝暫停狀態 (大的指示) (→ 50)
- 12 拍攝暫停狀態 (小的指示) (→ 50)
- 13 拍攝檢查狀態 (→ 52)
- 14 放影狀態 (→ 56)
攝錄影機尋影狀態 (→ 52)
- 15 快速狀態
- 16 倒帶狀態 (→ 56)
攝錄影機尋影狀態 (→ 52)
- 17 靜止放影狀態 (→ 64)
- 18 磁帶計時器用過的磁帶時間 (→ 122)
當錄影帶倒轉超過位置 [0:00.00] 時，用過的磁帶時間指示的前面會出現負號 [-]。
- 19 啟動了記憶停止功能的磁帶計時器 (→ 126)
- 20 剩餘電池電量
隨著剩餘電池電力的減少，指示會如下改變：

(當您使用交流轉接器，可能會出現  指示，然而，在此情況下將無任何意義。)
- 21 磁帶剩餘時間 (→ 42)
- 22 磁帶長度 (→ 42)
- 23 日期和時間 (→ 48)
- 24 題名 (小的指示) (→ 114)
- 25 題名 (大的指示) (→ 114)
- 26 全自動狀態 (→ 50)
- 27 錄影速度狀態 (→ 32)

ENGLISH

■ Recording and Playback Indications

- 8 Recording Mode (large Indication) (→ 50)
- 9 Recording Mode (small indication) (→ 50)
- 10 Tape Movement during Recording (→ 50)
- 11 Recording Pause Mode (large indication) (→ 50)
- 12 Recording Pause Mode (small indication) (→ 50)
- 13 Recording Check Mode (→ 52)
- 14 Playback Mode (→ 56)
Camera Search Mode (→ 52)
- 15 Fast Forward Mode
- 16 Rewind Mode (→ 56)
Camera Search Mode (→ 52)
- 17 Still Playback Mode (→ 64)
- 18 Elapsed Tape Time (→ 122)
When the tape is rewound further than the position [0:00.00], the minus sign [-] appears in front of the Elapsed Tape Time Indication.
- 19 Elapsed Tape Time with activated Memory Stop Function (→ 126)
- 20 Remaining Battery Power
As the remaining battery power decreases, the indication changes as follows:

(When you are using the AC Adaptor, the  Indication may appear, however, this has no meaning in this case.)
- 21 Remaining Tape Time (→ 42)
- 22 Tape Length (→ 42)
- 23 Date and Time (→ 48)
- 24 Title (small indication) (→ 114)
- 25 Title (large indication) (→ 114)
- 26 Full Auto Mode (→ 50)
- 27 Recording Speed Mode (→ 32)

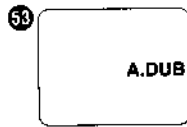
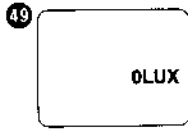
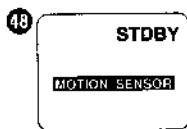


11 2

- 28 變焦放大率 (→ 54)
 - 29 手動白色平衡狀態 (→ 90)
 - 30 手動拍攝狀態 (→ 90, 94)
 - 31 運動狀態 (→ 96)
 - 32 素描特寫狀態 (→ 96)
 - 33 弱光狀態 (→ 96)
 - 34 聚光燈狀態 (→ 96)
 - 35 碎浪和雪地狀態 (→ 96)
 - 36 手動聚焦狀態 (→ 94)
 - 37 磁跡調節狀態 (→ 62)
 - 38 超級畫面穩定狀態 (→ 68)
 - 39 數位變焦狀態 (→ 74)
 - 40 黑白狀態 (→ 72, 118)
 - 41 棕色狀態 (→ 72, 118)
 - 42 馬賽克狀態 (→ 72, 118)
 - 43 負片狀態 (→ 72, 118)
 - 44 曝光過久狀態 (→ 72, 118)
 - 45 加寬狀態 (→ 72, 118)
 - 46 拍攝狀態 (→ 110) (僅限於 NV-VZ14/VZ15)
 - 47 拍攝暫停狀態 (→ 110) (僅限於 NV-VZ14/VZ15)
- 只有在鏡面狀態下拍攝時，才會出現上述 46 和 47 的指示。
(→ 110)

ENGLISH

- 28 Zoom Magnification (→ 54)
 - 29 Manual White Balance Mode (→ 90)
 - 30 Manual Recording Mode (→ 90, 94)
 - 31 Sports Mode (→ 96)
 - 32 Portrait Mode (→ 96)
 - 33 Low Light Mode (→ 96)
 - 34 Spotlight Mode (→ 96)
 - 35 Surf & Snow Mode (→ 96)
 - 36 Manual Focus Mode (→ 94)
 - 37 Tracking Adjustment Mode (→ 62)
 - 38 Super Image Stabilizer Mode (→ 68)
 - 39 Digital Zoom Mode (→ 74)
 - 40 Black-and-White Mode (→ 72, 118)
 - 41 Sepia Mode (→ 72, 118)
 - 42 Mosaic Mode (→ 72, 118)
 - 43 Negative Mode (→ 72, 118)
 - 44 Solarisation Mode (→ 72, 118)
 - 45 Stretch Mode (→ 72, 118)
 - 46 Recording Mode (→ 110) (NV-VZ14/VZ15 only)
 - 47 Recording Pause Mode (→ 110) (NV-VZ14/VZ15 only)
- The above indications 46 and 47 are only displayed when recording in the Mirror Mode. (→ 110)



中文

- 48 移動感應器控制拍攝功能待命狀態 (→ 84)
- 49 0 Lux 夜景狀態 (→ 88)
- 50 時基校正器 (→ 58)
- 51 間隔錄影狀態 (→ 82)
- 52 插入編輯狀態 (→ 100)
- 53 音頻拷貝狀態 (→ 102)
- 54 示範狀態

示範狀態

在未插入錄影帶的時候打開攝錄影機，將其置於攝錄影機狀態，並在10分鐘內不進行任何操作時，它將自動切換至示範狀態，向您示範攝錄影機的豐富功能。

- 將 [CAMERA FUNCTIONS] (攝像功能) 主菜單上的 [OTHER FUNCTIONS] (其他功能) 子菜單中的 [DEMO MODE] (示範狀態) 設置在 [ON] (開)，然後退出菜單，也能開始示範狀態。
- 按某一鈕或顯示菜單將暫時停止示範狀態。但是，如果您將攝錄影機保持在此狀態約10分鐘以上而不使用任何功能時，示範狀態將恢復。
- 如果您不希望啟動示範狀態，請將菜單上的 [DEMO MODE] 設置在 [OFF] (關)。
- 如果您在按住 [▶] 鈕的同時將 [CAMERA/OFF/VCR] (攝錄影機/關 / 錄影機) 開關設置在 [CAMERA] (攝錄影機)，菜單中的 [DEMO MODE] 項將被自動設置在 [ON]，並立即開始示範狀態。
- 如果您在按住 [■] 鈕的同時將 [CAMERA/OFF/VCR] 開關設置在 [CAMERA]，[DEMO MODE] 項將被自動設定為 [OFF]。







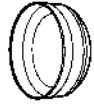
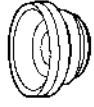




ENGLISH

- 48 Motion-Sensor-Controlled Recording Function Standby Mode (→ 84)
- 49 0 Lux Night View Mode (→ 88)
- 50 Time Base Corrector (→ 58)
- 51 Interval Recording Mode (→ 82)
- 52 Insert Editing Mode (→ 100)
- 53 Audio Dubbing Mode (→ 102)
- 54 Demonstration Mode

Demonstration Mode

When the Movie Camera is turned on and in the Camera Mode without any cassette inserted, and you leave it for 10 minutes without activating any function, it automatically switches over to the Demonstration Mode which demonstrates its many functions.

- You can also start the Demonstration Mode by setting [DEMO MODE] on the [OTHER FUNCTIONS] Sub-Menu of the [CAMERA FUNCTIONS] Main-Menu to [ON] and then exiting the menu.
- Pressing a button or displaying a menu temporarily suspends the Demonstration Mode. However, if you leave the Movie Camera in this condition without activating any function for more than approximately 10 minutes, the Demonstration Mode resumes.
- If you do not want the Demonstration Mode to be activated, set [DEMO MODE] on the menu to [OFF].
- If you set the [CAMERA/OFF/VCR] Switch to [CAMERA] and press the [▶] Button, [DEMO MODE] on the menu is automatically set to [ON] and the Demonstration Mode starts immediately.
- If you set the [CAMERA/OFF/VCR] Switch to [CAMERA] and press the [■] Button, [DEMO MODE] is automatically set to [OFF].

1. VW-BCV1E/A 	2. CGR-V14S 	3. CGR-V26S 	4. CGR-V53S 	5. VW-LND37E 	6. VW-LMC37E 
7. VW-LT3714ME 	8. VW-LW3707ME 	9. VZ-CT55E 	10. VW-TCA7E 	11. VZ-LDR10E 	12. VW-SK11E 

中文

選購附件

1. 電池充電器
2. 鋰離子電池組
3. 鋰離子電池組
4. 鋰離子電池組
5. ND 濾波器
6. MC 保護件
7. 望遠轉換鏡頭
8. 廣角轉換鏡頭
9. 標準三角架
10. 磁帶轉接器
11. IR/影像直流燈(鹵素遠紅外線燈)
(需座轉接器用以固定在攝錄影機上。)
12. 座轉接器(用於安裝IR/影像直流燈)

選購附件若有變更，恕不另行通知。
有些附件在某些國家購買不到。

ENGLISH

Optional Accessories

1. Battery Charger
2. Battery Pack (Lithium-Ion)
3. Battery Pack (Lithium-Ion)
4. Battery Pack (Lithium-Ion)
5. ND Filter
6. MC Protector
7. Tele Conversion Lens
8. Wide Conversion Lens
9. Tripod
10. Cassette Adaptor
11. IR/Video DC Light (Halogen & Infra-red)
(It requires the Shoe Adaptor for attaching to the Movie Camera.)
12. Shoe Adaptor
(for attaching the IR/Video DC Light)

Optional Accessories are subject to change without notice.
Some accessories are not available in some countries.

規格

VHS-C攝錄影機

您的安全信息

電源：	直流7.2V(電池) 直流11.0V(交流轉接器)
耗電量 (電池操作時)：	(NV-VZ14/VZ15) 3.4 W(使用電子尋像器時) 4.6 W(使用液晶顯示監視器時) (NV-RZ15) 3.4 W

錄影帶規格： VHS-C錄影帶
拍攝/放影時間： LP：2小時(使用EC60錄影帶時)
影像
電視制式： CCIR：625線，50幀 PAL彩色信號
輸出電平： 影像輸出(PHONO)：
1.0 Vp-p，75 歐姆端接

音頻

輸出電平/阻抗： 音頻輸出(PHONO)：
-6 dBV(47 千歐負載)/低於1千歐

音頻磁軌： 1軌跡(標準-單聲)
圖像感應器： 1/6英寸CCD圖像感應器
鏡頭： 18:1 動力變焦鏡頭(光學兼容)
F1.8

監視器： 2.5英寸彩色液晶顯示監視器
電子尋像器： 0.24英寸電子尋像器

標準亮度： 1,400 lux
操作溫度： 0°C-40°C
操作濕度： 10%-80%

重量： (NV-VZ14/VZ15)
約900克(電池除外)
(NV-RZ15)
約810克(電池除外)

尺寸： (NV-VZ14/VZ15)
約88(寬)×118(高)×241(深)mm
(NV-RZ15)
約81(寬)×118(高)×241(深)mm

交流轉接器

您的安全信息

電源：	交流110-240V，50/60Hz
耗電量：	14W
直流輸出：	直流11.0V，1.0A

重量： 約140克(交流電源線除外)
尺寸： 約60(寬)×32(高)×97(深)mm

重量和尺寸為近似值。
規格若有變更，恕不另行通知。

Specifications

VHS-C Movie Camera

Information for your safety

Power Source:	DC 7.2 V (Battery) DC 11.0 V (AC Adaptor)
Power Consumption (Battery Operation):	(NV-VZ14/VZ15) 3.4 W (When using Finder) 4.6 W (When using LCD Monitor) (NV-RZ15) 3.4 W

Tape Format: VHS-C Cassette
Recording/Playback Time: LP; 2 hour with EC60
VIDEO

Television System: CCIR; 625 lines, 50 fields
PAL colour signal
Output Level: VIDEO OUT (PHONO);
1.0 Vp-p, 75 ohm terminated

AUDIO

Output Level/Impedance: AUDIO OUT (PHONO);
-6 dBV (47 kohm loaded)/
less than 1 kohm

Audio Track: 1 track (Normal - Monaural)

Image Sensor: 1/6-inch CCD Image Sensor

Lens: 18:1 Power Zoom Lens
(Optical capability)
F1.8

Monitor: 2.5-inch Colour LCD Monitor

Finder: 0.24-inch Electronic Finder

Standard Illumination: 1,400 lx

Operating Temperature: 0°C-40°C

Operating Humidity: 10%-80%

Weight: (NV-VZ14/VZ15)
Approx. 900 g (without Battery)
(NV-RZ15)
Approx. 810 g (without Battery)

Dimensions: (NV-VZ14/VZ15)
Approx. 88 (W)×118 (H)×241 (D) mm
(NV-RZ15)
Approx. 81 (W)×118 (H)×241 (D) mm

AC Adaptor

Information for your safety

Power Source:	AC 110-240 V, 50/60 Hz
Power Consumption:	14 W
DC Output:	DC 11.0 V, 1.0 A

Weight: Approx. 140 g
(without AC Mains Lead)

Dimensions: Approx. 60 (W)×32 (H)×97 (D) mm

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

要求服務之前 (故障和解決辦法)

電源

- P1:** 攝錄影機電源不能打開。
- S1:** 是否已正確連接了電池或交流轉接器? 請確認連接狀況。(→ 18·20)
- P2:** 攝錄影機自動關閉。
- S2:** 如果您讓攝錄影機處於拍攝暫停狀態超過6分鐘, 本機將自動關閉, 以保護磁帶, 並節省電池能源。從此狀態恢復拍攝時, 請將 [CAMERA/OFF/VCR] (攝錄影機/開/錄影機) 開關設置在 [OFF] (關), 然後重新將其設置在 [CAMERA] (攝錄影機) 狀態。(→ 50)
- P3:** 攝錄影機很快關閉電源。
- S3-1:** 電池是否已耗盡? 當剩餘電池操作時間指示顯示為 [] 指示閃爍時, 說明電池已耗盡。請給電池充電或裝入充足電的電池。(→ 20)
- S3-2:** 是否已形成了凝結? 如果將攝錄影機從冷地方帶到暖地方時, 內部可能會發生凝結。在此情況下, 攝錄影機會自動關閉, 且除了取出磁帶以外, 將無法進行其他操作。請等待, 直至凝結指示消失為止(約2-3小時)。(→ 134)

錄影帶

- P1:** 剩餘磁帶時間指示不正確。
- S1:** 是否正確選擇了所插入錄影帶的長度? 請選擇正確的錄影帶長度。(→ 42)
- P2:** 攝錄影機和錄影帶在機場要進行X光安全檢查, 這對錄影帶有影響嗎?
- S2:** 這對攝錄影機和錄影帶沒有不良影響。
- P3:** 在播放一盤已存放一段時間的錄影帶時, 影像出現扭曲。
- S3:** 這盤錄影帶被存放在了不恰當的地方(有灰塵, 潮濕, 高溫等處), 或者靠近強磁物體或設備。很不幸, 沒有補救的方法。請務必正確存放錄影帶。(→ 132)

拍攝

- P1:** 電子尋像器中無圖像。(僅限於NV-VZ14/VZ15)
- S1:** 液晶顯示監視器處在打開的狀態(除非是在液晶顯示監視器朝向前方進行拍攝時)。
請確認並完全合上液晶顯示監視器。(→ 24)
- P2:** 液晶顯示監視器中的圖像不清晰。(僅限於NV-VZ14/VZ15)
- S2:** 未正確地調節圖像質量。
請調節圖像質量。(→ 38)

Before Requesting Service (Problems & Solutions)

Power Supply

- P1:** The Movie Camera does not turn on.
- S1:** Is the Battery or the AC Adaptor connected correctly? Confirm the connection. (→ 18, 20)
- P2:** The Movie Camera has turned off automatically.
- S2:** If you leave the Movie Camera in the Recording Pause Mode for more than 6 minutes, it automatically switches off to protect the tape and to conserve battery power. To resume recording from this condition, set the [CAMERA/OFF/VCR] Switch to [OFF] and then to [CAMERA] again. (→ 50)
- P3:** The Movie Camera quickly turns off.
- S3-1:** Is the Battery discharged? When the Remaining Battery Operation Time Indication shows the [] indication is flashing, the Battery is discharged. Charge the Battery or attach a fully charged Battery. (→ 20)
- S3-2:** Has condensation formed? If the Movie Camera is brought from a cold to a warm place, condensation may form inside. In this case, the Movie Camera automatically switches off and no operations can be performed except taking out the cassette. Wait until the Condensation Indication disappears (approximately 2 - 3 hours). (→ 134)

Cassette

- P1:** The Remaining Tape Time Indication is not correct.
- S1:** Is the tape length of the inserted cassette correctly selected? Select the correct tape length. (→ 42)
- P2:** The Movie Camera and cassettes underwent security X-ray inspection at an airport. Does this affect the cassettes?
- S2:** No, this has no negative influence on the Movie Camera or the cassettes.
- P3:** When playing back a cassette that was stored for some time, the picture is distorted.
- S3:** The cassette was stored in an unsuitable place (dusty, humid, hot, etc.) or near strongly magnetized objects or equipment. Unfortunately, there is no remedy. Always store the cassettes correctly. (→ 132)

Recording

- P1:** No picture appears in the Finder. (NV-VZ14/VZ15 only)
- S1:** The LCD Monitor is open (Except when recording with the LCD Monitor facing forward).
Securely close the LCD Monitor. (→ 24)
- P2:** Picture on the LCD Monitor is not clear. (NV-VZ14/VZ15 only)
- S2:** Picture quality is not properly adjusted.
Adjust picture quality. (→ 38)

拍攝 (續)

- P3: 當按拍攝開始/停止鈕時，不能開始拍攝。
- S3: 所插錄影帶的保險片已被拔去。請插入帶有保險片的錄影帶。或者，在保險片所在的孔上貼上兩層膠帶紙。(→ 40)
- P4: 日期/時間/題名指示不顯示。
- S4: 這是因為對 [DATE/TITLE] (日期/題名) 鈕和/或 [MENU] (菜單) 鈕進行了誤操作。按 [MENU] 鈕並設定需要的日期/時間/題名指示，然後按 [DATE/TITLE] 鈕使日期/時間/題名指示顯示。(→ 48)

放影

- P1: 按 [▶] 鈕時，未出現播放的圖像。
- S1: [CAMERA/OFF/VCR] (攝錄影機/關/錄影機) 開關是否被設置在 [VCR] (錄影機)? 當其被設置在 [CAMERA] (攝錄影機) 時，將無法操作放影功能。(→ 56)
- P2: 播放圖像出現扭曲或有雜波條紋。
- S2-1: 錄影帶中的磁帶鬆了。將其旋緊。(→ 40)
- S2-2: 磁頭髒污。請用選購的磁頭清潔帶清潔磁頭。(→ 134)
- S2-3: 沒有正確調整磁跡。正確調整磁跡。(→ 62)
- P3: 播放圖像無彩色。
- S3: 沒有正確調節電視機的色彩。調節電視機的色彩控制。

遙控器 (僅限於 NV-VZ15/RZ15)

- P1: 遙控器不工作。
- S1-1: 遙控器內的電池已經耗盡。請將電池換新。(→ 106)
- S1-2: 遙控器和/或攝錄影機被暴露在強光下。在使用遙控器時，請避免強光照射到遙控器和/或攝錄影機。

示範狀態

- P1: 攝錄影機總是處於示範狀態。
- S1: 示範狀態是用來解釋本攝錄影機的豐富功能的。希望關閉此狀態時，請將 [CAMERA/OFF/VCR] 開關設置在 [OFF] (關)，然後在按住 [■] 鈕的同時重新將 [CAMERA/OFF/VCR] 開關設置在 [CAMERA] (攝錄影機)。或者，將 [OTHER FUNCTIONS] (其他功能) 子菜單中的 [DEMO MODE] (示範狀態) 項設定為 [OFF]。(→ 144)

Recording (Continued)

- P3: Recording does not start when pressing the Recording Start/Stop Button.
- S3: The tab of the inserted cassette is broken out. Insert a cassette with intact tab. Or cover the hole where the tab was with two layers of adhesive tape. (→ 40)
- P4: The Date/Time/Title Indication is not displayed.
- S4: This is due to incorrect operation of the [DATE/TITLE] Button and/or the [MENU] Button. Press the [MENU] Button and set the desired Date/Time/Title Indication. Then press the [DATE/TITLE] Button so that the Date/Time/Title Indication appears. (→ 48)

Playback

- P1: No playback picture is reproduced when pressing the [▶] Button.
- S1: Is the [CAMERA/OFF/VCR] Switch set to [VCR]? When it is set to [CAMERA], no playback function can be operated. (→ 56)
- P2: The playback picture is distorted or contains noise bars.
- S2-1: The tape in the cassette is loose. Tighten it. (→ 40)
- S2-2: The video heads are dirty. Clean them with an optional video head cleaning cassette. (→ 134)
- S2-3: The tracking is not adjusted correctly. Adjust the tracking correctly. (→ 62)
- P3: The playback picture is not in colour.
- S3: The colour adjustment on the TV is not made properly. Adjust the colour control on the TV.

Remote Controller (NV-VZ15/RZ15 only)

- P1: The Remote Controller does not work.
- S1-1: The batteries in the Remote Controller are exhausted. Replace them with new batteries. (→ 106)
- S1-2: The Remote Controller and/or the Movie Camera are exposed to strong light. Prevent strong light from falling on the Remote Controller and/or Movie Camera when using the Remote Controller.

Demonstration Mode

- P1: The Movie Camera remains in the Demonstration Mode.
- S1: The Demonstration Mode is designed for explaining the versatile functions of this Movie Camera. To switch this mode off, set [CAMERA/OFF/VCR] Switch to [OFF], then set it to [CAMERA] again while pressing the [■] Button. Or, set [DEMO MODE] on the [OTHER FUNCTIONS] Sub-Menu to [OFF]. (→ 144)