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You can read the recommendations in the user guide, the technical guide or the installation guide for JVC GR-D320E. You'll find the answers to all your questions on the JVC GR-D320E in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual JVC GR-D320E
User guide JVC GR-D320E
Operating instructions JVC GR-D320E
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Instruction manual JVC GR-D320E

JVC

DIGITAL VIDEO CAMERA

GR-D320E/EK

Please visit our Homepage on the World Wide Web for Digital Video Camera:

<http://www.jvc.co.jp/english/cyber/>

For Accessories:

<http://www.jvc.co.jp/english/accessory/>



Mini DV PAL

INSTRUCTIONS

Dear Customer,
Thank you for purchasing this digital video camera. Before use, please read the safety information and precautions contained in the pages 2 - 5 and 11 to ensure safe use of this product.

ENGLISH

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To deactivate the demonstration, set "DEMO MODE" to "OFF". (→ pg. 23, 25)

LYT1526-001A

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Manual abstract:

@@(pg. @@@@ We recommend cleaning your video heads before use. @@We recommend periodically cleaning the video heads with a cleaning cassette (optional). Be sure to store your cassette tapes and camcorder in the proper environment. Video heads can become dirty more easily if your cassette tapes and camcorder are stored in a dusty area. Cassette tapes should be removed from the camcorder and stored in cassette cases. Store the camcorder in a bag or other container. Use SP (Standard) mode for important video recordings. LP (Long Play) mode lets you record 50% more video than SP (Standard) mode, but you may experience mosaic-like noise during playback depending on the tape characteristics and the usage environment. So, for important recordings, we recommend using SP mode.

For safety and reliability. It is recommended only genuine JVC batteries and accessories are used in this camcorder. This product includes patented and other proprietary technology and will operate only with JVC Data Battery. Use the JVC BNVF707U/VF714U/VF733U battery packs. Using generic non-JVC batteries can cause damage to the internal charging circuitry.

Make sure you only use cassettes with the Mini DV mark. Remember that this camcorder is intended for private consumer use only. Any commercial use without proper permission is prohibited. (Even if you record an event such as a show, performance or exhibition for personal enjoyment, it is strongly recommended that you obtain permission beforehand). DO NOT leave the unit - in place of over 50°C (122°F) - in place where humidity is extremely low (below 35%) or extremely high (80%).

- in direct sunlight. - in a closed car in summer. - near a heater. The LCD monitor is made with high-precision technology. However, black spots or bright spots of light (red, green or blue) may appear constantly on the LCD monitor. These spots are not recorded on the tape. This is not due to any defect of the unit. (Effective dots: more than 99.99%) Do not leave the battery pack attached when the camcorder is not in use and check the unit regularly whether it is working or not. EN 3 SAFETY PRECAUTIONS IMPORTANT (for owners in the U.

K.) Connection to the mains supply in the United Kingdom. DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer. BE SURE to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover. If nonetheless the mains plug is cut off be sure to remove the fuse and dispose of the plug immediately, to avoid possible shock hazard by inadvertent connection to the mains supply. If this product is not supplied fitted with a mains plug then follow the instructions given below: DO NOT make any connection to the Larger Terminal coded E or Green. The wires in the mains lead are coloured in accordance with the following code: Blue to N (Neutral) or Black Brown to L (Live) or Red If these colours do not correspond with the terminal identifications of your plug, connect as follows: Blue wire to terminal coded N (Neutral) or coloured black. Brown wire to terminal coded L (Live) or coloured Red. If in doubt -- consult a competent electrician.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. CAUTIONS: To prevent shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified personnel. When you are not using the AC Adapter for a long period of time, it is recommended that you disconnect the power cord from AC outlet.

CAUTION: To avoid electric shock or damage to the unit, first firmly insert the small end of the power cord into the AC Adapter until it is no longer wobbly, and then plug the larger end of the power cord into an AC outlet. CAUTIONS: This camcorder is designed to be used with PAL-type colour television signals.

It cannot be used for playback with a television of a different standard. However, live recording and LCD monitor/viewfinder playback are possible anywhere. This product includes patented and other proprietary technology and will operate only with JVC Data Battery.

Use the JVC BN-VF707U/VF714U/VF733U battery packs and, to recharge them or to supply power to the camcorder from an AC outlet, use the provided multi-voltage AC Adapter. (An appropriate conversion adapter may be necessary to accommodate different designs of AC outlets in different countries.)

NOTES: The rating plate (serial number plate) and safety caution are on the bottom and/or the back of the main unit. The rating information and safety caution of the AC Adapter are on its upper and lower sides. 4 EN When the equipment is installed in a cabinet or on a shelf, make sure that it has sufficient space on all sides to allow for ventilation (10 cm or more on both sides, on top and at the rear). Do not block the ventilation holes. (If the ventilation holes are blocked by a newspaper, or cloth etc. the heat may not be able to get out). No naked flame sources, such as lighted candles, should be placed on the apparatus. When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly.

The apparatus shall not be exposed to dripping or splashing. Do not use this equipment in a bathroom or places with water. Also do not place any containers filled with water or liquids (such as cosmetics or medicines, flower vases, potted plants, cups etc.) on top of this unit. (If water or liquid is allowed to enter this equipment, fire or electric shock may be caused). Do not point the lens or the viewfinder directly into the sun. This can cause eye injuries, as well as lead to the malfunctioning of internal circuitry. There is also a risk of fire or electric shock. CAUTION! The following notes concern possible physical damage to the camcorder and to the user. When carrying, be sure to always securely attach and use the provided strap.

Carrying or holding the camcorder by the viewfinder and/or the LCD monitor can result in dropping the unit, or in a malfunction. Take care not to get your finger caught in the cassette holder cover. Do not let children operate the camcorder, as they are particularly susceptible to this type of injury. Do not use a tripod on unsteady or unlevel surfaces. It could tip over, causing serious damage to the camcorder.

CAUTION! Connecting cables (Audio/Video, S-Video, etc.) to the camcorder and leaving it on top of the TV is not recommended, as tripping on the cables will cause the camcorder to fall, resulting in damage. Information for Users on Disposal of Old Equipment [European Union] This symbol indicates that the electrical and electronic equipment should not be disposed as general household waste at its end-of-life. Instead, the product should be handed over to the applicable collection point for the recycling of electrical and electronic equipment for proper treatment, recovery and recycling in accordance with your national legislation.



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By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of this product.

For more information about collection point and recycling of this product, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

(Business users) If you wish to dispose of this product, please visit our web page www.jvc-europe.com to obtain information about the take-back of the product. [Other Countries outside the European Union] If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment. EN 5 SOME DO'S AND DON'TS ON THE SAFE USE OF EQUIPMENT This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured. DO read the operating instructions before you attempt to use the equipment. DO ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.

DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment. DO be careful with glass panels or doors on equipment. DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way -- switch off, withdraw the mains plug and consult your dealer. DON'T remove any fixed cover as this may expose dangerous voltages. DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure that your family knows how to do this. Special arrangements may need to be made for infirm or handicapped people. DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of road safety. It is illegal to watch television whilst driving. DON'T listen to headphones at high volume, as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment. DON'T use makeshift stands and NEVER fix legs with wood screws -- to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions. DON'T allow electrical equipment to be exposed to rain or moisture. ABOVE ALL NEVER let anyone especially children push anything into holes, slots or any other opening in the case -- this could result in a fatal electrical shock; NEVER guess or take chances with electrical equipment of any kind -- it is better to be safe than sorry! 6 EN Major Features of this Camcorder Wipe/Fader Effects You can use the Wipe/Fader Effects to make pro-style scene transitions.

(pg. 31) Fade in Backlight Compensation Simply pressing the BACKLIGHT button brightens the image darkened by backlight. (pg. 29) You can also select a spot metering area so that more precise exposure compensation is available. (pg.

29, Spot Exposure Control) Fade out Program AE, Effects and Special Effects For example, "SPORTS" mode allows fastmoving images to be captured one frame at a time, for vivid, stable slow-motion. (pg. 31) Data Battery You can check the battery status by simply pressing the DATA button. (pg. 13) BATTERY

CONDITION LEVEL MAX TIME LCD 100% 50 0 80min 90min FINDER Auto Button You can change the recording mode between manual setting to the standard mode setting of the camcorder by pressing the AUTO button. (pg. 14) M CONTENTS EN 7 GETTING STARTED 8 ADVANCED FEATURES 23

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17) Other Parts U LCD Monitor (pg. 18) V Viewfinder (pg. 16) W Battery Pack Mount (pg. 13) X Shoulder Strap Eyelet (pg. 12) Y Speaker (pg. 21) Z Grip Strap (pg. 15) a Lens b Camera Sensor (Be careful not to cover this area, a sensor necessary for shooting is built-in here.) c Stereo Microphone d Stud Hole (pg. 16) e Tripod Mounting Socket (pg. 16) f Cassette Holder Cover (pg. 17) Connectors The connectors are located beneath the covers. Q Audio/Video Output Connector [AV] (pg. 22, 33) R DC Input Connector [DC] (pg. 12) S Digital Video Connector [DV OUT] (i.LINK*) (pg.

34, 35) * i.LINK refers to the IEEE1394-1995 industry specification and extensions thereof. The logo is used for products compliant with the i.LINK standard.

Indicators T POWER/CHARGE Lamp (pg. 12, 18) GETTING STARTED 10 EN GETTING STARTED LCD Monitor/Viewfinder Indications During Video Recording 89 10 x 1 2 3 1/50 4 5 B/W 6 7 0qw e r t y u i o R Wipe/Fader Mode Indicator (pg. 31) S Wind Cut Indicator (pg. 25) T Time Code (pg. 25) U Manual Focus Adjustment Indicator (pg. 28) Brightness Control Indicator (LCD monitor/ Viewfinder) (pg.

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24) (Appears for approx. 5 seconds after turning on the camcorder). H Battery Remaining Power Indicator (pg. 38) I Approximate Zoom Ratio (pg. 19) J Zoom Indicator (pg. 19) K Digital Image Stabiliser (pg. 24) L Wide16:9 Mode Indicator (pg. 27) M Recording Speed Mode (SP/LP) (pg. 24) (Only LP Indicator is displayed) N Tape Running Indicator (pg. 18) (Rotates while tape is running).

O Tape Remaining Time (pg. 18) P REC: (Appears during recording). (pg. 18) PAUSE: (Appears during Record-Standby mode). (pg. 18) PHOTO: (Appears when taking snapshot). (pg. 27) Q : Spot Exposure Control Indicator (pg. 29) : Backlight Compensation Indicator (pg. 29) : Iris Lock Indicator (pg.

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26) (Only LP Indicator is displayed) d Cassette Indicator E 4: Playback 5: Fast-Forward/Shuttle Search 3: Rewind/Shuttle Search F Date/Time (pg. 15) G VOLUME: Volume Level Indicator (9: Pause pg. 21) BRIGHT: Brightness Control Indicator (LCD monitor/Viewfinder) (pg. 16) H Time Code (pg. 26) I Sound Mode Indicator (pg. 26) EXPOSURE GETTING STARTED EN 11 Before Using This Camcorder Make sure you only use cassettes with the Mini DV mark . This camcorder is designed exclusively for the digital video cassette. Only cassettes marked " " can be used with this unit. Remember that this camcorder is not compatible with other digital video formats. Remember that this camcorder is intended for private consumer use only. Any commercial use without proper permission is prohibited. (Even if you record an event such as a show, performance or exhibition for personal enjoyment, it is strongly recommended that you obtain permission beforehand). Before recording important video, be sure to make a trial recording. @@We recommend cleaning your video heads before use.

@@We recommend periodically cleaning the video heads with a cleaning cassette (optional). Be sure to store your cassette tapes and camcorder in the proper environment. Video heads can become dirty more easily if your cassette tapes and camcorder are stored in a dusty area. Cassette tapes should be removed from the camcorder and stored in cassette cases. Store the camcorder in a bag or other container. Use SP (Standard) mode for important video recordings. LP (Long Play) mode lets you record 50% more video than SP (Standard) mode, but you may experience mosaic-like noise during playback depending on the tape characteristics and the usage environment. So, for important recordings, we recommend using SP mode. It is recommended that you use JVC brand cassette tapes. Your camcorder is compatible with all brands of commercially available cassette tapes complying with the MiniDV standard, but JVC brand cassette tapes are designed and optimized to maximize the performance of your camcorder.

Also read "CAUTIONS" on pages 40 41. Provided Accessories OR a b c d AC Adapter AP-V17E or AP-V14E Power Cord (only for AP-V14E) Battery Pack BN-VF707U Audio/Video Cable(Ø3.5 mini-plug to RCA plug) e Shoulder Strap (pg. 12 for attachment) f Lens Cap (pg. 12 for attachment) NOTES: In order to maintain optimum performance of the camcorder, provided cables may be equipped with one or more core filter.

If a cable has only one core filter, the end that is closest to the filter should be connected to the camcorder. Make sure to use the provided cables for connections. Do not use any other cables. GETTING STARTED 12 EN GETTING STARTED How To Attach The Lens Cap To protect the lens, attach the provided lens cap to the camcorder as shown in the illustration. Power This camcorder's 2-way power supply system lets you choose the most appropriate source of power.

Do not use provided power supply units with other equipment. NOTE: To confirm the lens cap is on correctly make sure the cap is flush to the camcorder.

Charging The Battery Pack Battery pack mount Battery pack PUSH BATT. Place here during shooting. How To Attach The Shoulder Strap Follow the illustration. Arrow POWER/ CHARGE lamp 1 Thread the strap through the eyelet. 2 Fold it back and thread it through the strap guide and the buckle. To adjust the length of the strap, loosen and then tighten the strap in the buckle. To DC connector To AC outlet 3 Slide the strap guide fully towards the eyelet. Buckle Strap guide Power switch AC Adapter (ex.

AP-V17E) 2 2 1 Set the Power Switch to "OFF". 2 With the arrow on the battery pack pointing downward, push the battery pack slightly against the battery pack mount a. 3 Slide down the battery pack until it locks in place b. 4 Connect the AC Adapter to the camcorder. 5 Connect the Power Cord to the AC Adapter. (AP-V14E only) 1 Eyelet 3 6 Plug the AC Adapter into an AC outlet. The POWER/CHARGE lamp on the camcorder blinks to indicate charging has started. 7 When the POWER/CHARGE lamp goes out, charging is finished. Unplug the AC Adapter from the AC outlet. Disconnect the AC Adapter from the camcorder.

GETTING STARTED To detach the battery pack Slide the battery pack upward while pressing PUSH BATT. to detach it. Battery pack BN-VF707U* BN-VF714U BN-VF733U * Provided Charging time Approx. 1 hr. 30 min.

Approx. 2 hr. 40 min. Approx. 5 hr.

40 min. EN 13 Using The Battery Pack Perform steps 2 3 in "Charging The Battery Pack". Maximum continuous recording time Battery pack BN-VF707U* BN-VF714U BN-VF733U * Provided LCD monitor on 1 hr. 30 min. 3 hr. 7 hr. Viewfinder on 1 hr. 40 min. 3 hr. 25 min.

8 hr. NOTES: It is recommended that only genuine JVC batteries are used in this camcorder. Using generic non-JVC batteries can cause damage to the internal charging circuitry. If the protective cap is attached to the battery pack, remove it first. During charging, the camcorder cannot be operated. Charging is not possible if the wrong type of battery is used. When charging the battery pack for the first time or after a long storage period, the POWER/ CHARGE lamp may not light. In this case, remove the battery pack from the camcorder, then try charging again. If the battery operation time remains extremely short even after having been fully charged, the battery is worn out and needs to be replaced. Please purchase a new one.

Since the AC Adapter processes electricity internally, it becomes warm during use. Be sure to use it only in well-ventilated areas. Using the optional AA-VF7 Battery Charger, you can charge the BN-VF707U/VF714U/VF733U battery pack without the camcorder. After 5 minutes has elapsed in Record-Standby mode with the cassette inserted, and no operation is performed ("T PAUSE" indicator may not appear), the camcorder will automatically turn off its power supplied from the AC adapter. In this case, the battery charge starts if the battery is attached to the camcorder.

NOTES: Recording time is reduced significantly under the following conditions: · Zoom or Record-Standby mode is engaged repeatedly. · The LCD monitor is used repeatedly. · The playback mode is engaged repeatedly. Before extended use, it is recommended that you prepare enough battery packs to cover 3 times the planned shooting time. ATTENTION: Before detaching the power source, make sure that the camcorder's power is turned off.

Failure to do so can result in a camcorder malfunction. Data Battery System You can check the remaining battery power and the recordable time. 1) Make sure the battery is attached and the Power Switch is set to "OFF". 2) Open the LCD monitor fully. 3) Press DATA, and the battery status screen appears. It is displayed for 5 seconds if the button is pressed and released quickly, and for 15 seconds if the button is pressed and hold for several seconds.



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If "COMMUNICATION ERROR" appears instead of the battery status even though you tried to press DATA several times, there may be a problem on the battery. In such a case, consult your nearest JVC dealer. GETTING STARTED 14 EN GETTING STARTED Using AC Power Perform steps 4 6 in "Charging The Battery Pack". Operation Mode To turn on the camcorder, set the Power Switch to any operation mode except "OFF" while pressing down the Lock Button located on the switch.

Lock Button MENU POWER/ CHARGE lamp NOTE: The provided AC Adapter features automatic voltage selection in the AC range from 110 V to 240 V.

About Batteries DANGER! Do not attempt to take the batteries apart, or expose them to flame or excessive heat, as it may cause a fire or explosion.

WARNING! Do not allow the battery or its terminals to come in contact with metals, as this can result in a short circuit and possibly start a fire. To resume the original function of the accurate battery power indication If the battery power indication differs from the actual operating time, fully charge the battery, and then run it down. However this function may not turn back if the battery was used for a long period of time under extremely high/low temperature condition or charged too many times. AUTO Choose the appropriate operation mode according to your preference using the Power Switch. Power Switch Position REC: Allows you to perform recording on the tape. Allows you to set various recording functions using the Menus. (pg. 23) OFF: Allows you to switch off the camcorder.

PLAY: Allows you to play back a recording on the tape. Allows you to set various playback functions using the Menus. (pg. 23) Auto/Manual Mode Press AUTO button repeatedly to switch to auto/ manual recording mode. When manual mode is selected, the indicator "M" appears on the LCD monitor.

Auto Mode: A You can record using no special effects or manual adjustments. Manual Mode: M Manual recording is possible by setting various functions. GETTING STARTED EN 15 Power-Linked Operation When the Power Switch is set to "REC", you can also turn on/off the camcorder by opening/ closing the LCD monitor or pulling out/pushing in the viewfinder. INFORMATION: The following explanations in this manual supposes the use of LCD monitor in your operation. If you want to use the viewfinder, close the LCD monitor and pull out the viewfinder fully.

Date/Time Settings The date/time is recorded onto the tape at all times, but its display can be turned on or off during playback. (pg. 23, 25) 1 Perform steps 1 4 in "Language Settings" on the left column. 2 Press 1. 1. 2006 3 : 13 Language Settings The language on the display can be changed. (pg. 25) 3 Press 1 Set the Power Switch to "REC" while pressing down the Lock Button located on the switch. D I S PLAY BRIGHT CL OCK AD J . LANGUAGE DA TE / T I ME ON S CRE E N T I ME CODE DEMO MODE or to select the desired date display format, and then press SET or .

Select from "MONTH.DATE.YEAR", "DATE.MONTH.YEAR" or "YEAR.MONTH.DATE". or to select the time display format, then press SET or . Select from "24h" or "12h". Press or to select the value, then press SET or .

Repeat this step until you have input all the settings. NOTE: Press to return to the previous setting. 4 Press 2 Open the LCD monitor fully. (pg. 18) Set the recording mode to "M".

(pg. 14) 5 Set the year, month, date, hour and minute. 3 Press MENU. The Menu Screen appears. 4 Press or to select "DISPLAY", and press SET or .

The DISPLAY Menu appears. 6 Press MENU. The Menu Screen closes. 5 Press or to select "LANGUAGE", and press SET or . Grip Adjustment 1 Adjust the velcro strip. 2 Pass your right hand through the loop and grasp the grip. 6 Press or to select the desired language, and press SET or . D I S PLAY BRIGHT CL OCK AD J . LANGUAGE DA TE / T I ME ON S CRE E N T I ME CODE DEMO MODE 7 Press MENU. The Menu Screen closes.

ENGLISH FRANÇAIS ESPAÑOL ITALIANO NEDERLANDS 3 Adjust your thumb and fingers through the grip to easily operate the Recording Start/Stop Button, Power Switch and Power Zoom Lever. Be sure to fasten the velcro strip to your preference. NOTES: Press whenever you want to return to the previous menu screen. You cannot enter menu screen during recording. GETTING STARTED or to select "CLOCK ADJ.", and press SET or . The date display format is highlighted. D I S PLAY CL OCK AD J . MONTH.DATE.

YEAR 24h 16 EN GETTING STARTED Viewfinder Adjustment 1 Set the Power Switch to "REC" while pressing down the Lock Button located on the switch. Brightness Adjustment Of The Display 1 Set the Power Switch to "REC" or "PLAY" while pressing down the Lock Button located on the switch. 2 Make sure the LCD monitor is closed and locked. Pull out the viewfinder fully and adjust it manually for best viewability. 3 Turn the Dioptre Adjustment Control until the indications in the viewfinder are clearly focused.

Example: 2 Open the LCD monitor fully. (To adjust the brightness of the viewfinder, pull out the viewfinder fully and set "PRIORITY" to "FINDER" (pg. 23, 25). pg. 18) MENU BRIGHT 3 Press MENU.

The Menu Screen appears. If you are in Playback mode, please proceed to step 5. 4 Press Dioptre Adjustment Control or to select "DISPLAY", and press SET or . The DISPLAY Menu appears. CAUTION: When retracting the viewfinder, take care not to pinch your fingers. 5 Press or to select "BRIGHT", and press SET or . The Menu Screen closes and the brightness control MENU appears. 6 Press or until the appropriate brightness is reached and press SET or . 7 Press MENU. The Menu screen closes.

Tripod Mounting To attach the camcorder to a tripod, align the direction stud and screw to the mounting socket and stud hole on the camcorder. Then tighten the screw clockwise. Some tripods are not equipped with studs. GETTING STARTED EN 17 Loading/Unloading A Cassette The camcorder needs to be powered up to load or eject a cassette. PUSH OPEN/EJECT Cassette holder cover Once the cassette holder is closed, it recedes automatically. Wait until it recedes completely before closing the cassette holder cover. When the battery pack's charge is low, you may not be able to close the cassette holder cover. Do not apply force. Replace the battery pack with a fully charged one or use AC power before continuing. 3 Close the cassette holder cover firmly until it locks into place.

To protect valuable recordings Slide the erase protection tab on the back of the tape in the direction of "SAVE". This prevents the tape from being recorded over. To record on this tape, slide the tab back to "REC" before loading it.



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If you wait a few seconds and the cassette holder does not open, close the cassette holder cover and try again. If the cassette holder still does not open, turn the camcorder off then on again.

If the tape does not load properly, open the cassette holder cover fully and remove the cassette. A few minutes later, insert it again. When the camcorder is suddenly moved from a cold place to a warm environment, wait a short time before opening the cassette holder cover. Cassette holder Make sure the window side is facing out. Erase protection tab NOTES: 1 Slide and hold OPEN/EJECT in the direction of the arrow, then pull the cassette holder cover open until it locks.

The cassette holder opens automatically. Do not touch internal components. 2 Insert or remove a tape and press "PUSH" to close the cassette holder. Be sure to press only the section labelled "PUSH" to close the cassette holder; touching other parts may cause your finger to get caught in the cassette holder, resulting in injury or product damage. GETTING STARTED 18 EN NOTE: VIDEO RECORDING Basic Recording Before continuing, perform the procedures listed below: Power (pg. 12) Loading A Cassette (pg. 17) Power Zoom Lever Tape Remaining Time Approximate tape remaining 62 min time appears on the display. "---min" means the camcorder is calculating the remaining time. When the remaining time reaches 2 minutes, the indication starts blinking. The time required to calculate and display the remaining tape length, and the accuracy of the calculation, may vary according to the type of tape used.

POWER/CHARGE Lamp Power Switch Recording Start/Stop Button LCD Monitor And Viewfinder While using the LCD monitor: Make sure the viewfinder is pushed back in. Pull on the end of the LCD monitor and open the LCD monitor fully. It can rotate 270° (90° downward, 180° upward). 180° 1 Remove the lens cap. (pg. 12) 2 Open the LCD monitor fully. 3 Set the Power Switch to "REC" while pressing down the Lock Button located on the switch. The POWER/CHARGE lamp lights and the camcorder enters the Record-Standby mode. "T PAUSE" is displayed. To record in LP (Long Play) mode, pg. 24. 4 To start recording, press the Recording Start/ Stop Button. "T REC" appears on the display while recording is in progress. 90° 5 To stop recording, press the Recording Start/ Stop Button again. The camcorder re-enters the Record-Standby mode.

Approximate recording time Tape 30 min. 60 min. 80 min. Recording mode SP 30 min. 60 min.

80 min. LP 45 min. 90 min. 120 min. While using the viewfinder: Make sure the LCD monitor is closed and locked. Pull out the viewfinder fully. NOTES: The image will not appear simultaneously on the LCD monitor and the viewfinder. When the viewfinder is pulled out while the LCD monitor is opened, you can select which one to use. Set "PRIORITY" to the desired mode in SYSTEM Menu. (pg.

23, 25) Coloured bright spots may appear all over the LCD monitor or the viewfinder. However, this is not a malfunction. (pg. 37) If the Record-Standby mode continues for 5 minutes and no operation is performed ("T PAUSE" indicator may not appear), the camcorder's power shuts off automatically. To turn the camcorder on again, push back and pull out the viewfinder again or close and re-open the LCD monitor. When a blank portion is left between recorded scenes on the tape, the time code is interrupted and errors may occur when editing the tape. To avoid this, refer to "Recording From The Middle Of A Tape" (pg. 20). To turn the melody sounds off, pg. 23, 25.

NOTES: VIDEO RECORDING EN 19 Zooming Produces the zoom in/out effect, or an instantaneous change in image magnification. Zoom In Slide the Power Zoom Lever towards "T". Zoom Out Slide the Power Zoom Lever towards "W". Journalistic Shooting In some situations, different shooting angles may provide more dramatic results. Hold the camcorder in the desired position and tilt the LCD monitor in the most convenient direction.

It can rotate 270° (90° downward, 180° upward). The further you slide the Power Zoom Lever, the quicker the zoom action. Zoom in (T: Telephoto) 1x 10x 20x 40x Time Code VIDEO RECORDING & PLAYBACK During recording, a time code is recorded on the tape. This code is to confirm the location of the recorded scene on the tape during playback. Zoom out (W: Wide angle) 10 x Display Minutes Seconds Frames* (25 frames = 1 second) 12 : 34 : 24 Digital zoom zone 25X (optical) zoom zone Approximate zoom ratio Focusing may become unstable during zooming.

In this case, set the zoom while in RecordStandby, lock the focus by using the manual focus (pg. 28), then zoom in or out in Record mode. Zooming is possible to a maximum of 800X, or it can be switched to 25X magnification using the optical zoom. (pg. 24) Zoom magnification of over 25X is done through digital image processing, and is therefore called Digital Zoom. During Digital Zoom, the quality of image may suffer. Macro shooting (as close as approx. 5 cm to the subject) is possible when the Power Zoom Lever is set all the way to "W". Also see "TELE MACRO" in FUNCTION Menu on page 24. When shooting a subject close to the lens, zoom out first.

If zoomed-in in the auto focus mode, the camcorder may automatically zoom out depending on the distance between the camcorder and the subject. This will not occur when "TELE MACRO" is set to "ON". (pg. 24) NOTES: * Frames are not displayed during recording. If recording starts from a blank portion, the time code begins counting from "00:00:00" (minute:second:frame). If recording starts from the end of a previously recorded scene, the time code continues from the last time code number. If during recording a blank portion is left partway through the tape, the time code is interrupted. When recording is resumed, the time code starts counting up again from "00:00:00". This means the camcorder may record the same time codes as those existing in a previously recorded scene. To prevent this, perform Recording From The Middle Of A Tape (pg.

20) in the following cases; When shooting again after playing back a recorded tape. When power shuts off during shooting. When a tape is removed and re-inserted during shooting. When shooting using a partially recorded tape. When shooting on a blank portion located partway through the tape.

When shooting again after shooting a scene then opening/closing the cassette holder cover. CONTINUED ON NEXT PAGE 20 EN NOTES: VIDEO RECORDING The time code cannot be reset. During fast-forwarding and rewinding, the time code indication does not move smoothly. The time code is displayed only when "TIME CODE" is set to "ON". (pg.

25) Quick Review Enables to check the end of the last recording.



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1) Press **QUICK REVIEW** during the Recording-Standby mode. 2) Tape is rewound for about several seconds and played back automatically, then pauses in the Recording-Standby mode for the next shot. Distortion may occur at start of playback. This is normal. Recording From The Middle Of A Tape 1) Play back a tape or use Blank Search (pg. 21) to find the spot at which you want to start recording, then engage the Still Playback mode. (pg. 21) 2) Set the Power Switch to "REC" while pressing down the Lock Button located on the switch, then start recording. VIDEO PLAYBACK EN 21 Normal Playback 5 4/9 3 Speaker VOL.

+/- Lock Button Once you release the button, normal playback resumes. A slight mosaic effect appears on the display during Shuttle Search. This is not a malfunction. ATTENTION: During Shuttle Search, parts of the picture may not be clearly visible, particularly on the left side of the screen. MENU 8 1 Load a cassette. (pg. 17) 2 Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch. Blank Search Helps you find where you should start recording in the middle of a tape to avoid time code interruption. (pg. 19) 3 To start playback, press 4/9.

4 To stop playback, press 8. During Stop mode, press 3 to rewind, or 5 to fast-forward the tape. pressing down the Lock Button located on the switch. To control the speaker volume Slide the Power Zoom Lever (VOL. +/-) towards "+" to turn up the volume, or towards "-" to turn down the volume.

3 Press **BLANK**. NOTES: The playback picture can be viewed in the LCD monitor, viewfinder or on a connected TV. (pg. 22) If Stop mode continues for 5 minutes when power is supplied from a battery, the camcorder shuts off automatically. To turn on again, set the Power Switch to "OFF", then to "PLAY".

When a cable is connected to the AV connector, the sound is not heard from the speaker. The "BLANK SEARCH" indication appears and the camcorder automatically starts reverse or forward search, then stops at the spot which is about 3 seconds of tape before the beginning of the detected blank portion. To cancel Blank Search midway, press 8 or **BLANK**. NOTES: Still Playback Pauses during video playback. 1) Press 4/9 during playback. 2) To resume normal playback, press 4/9 again. If still playback continues for more than about 3 minutes, the camcorder's Stop mode is automatically engaged. Before starting Blank Search, if the current position is at a blank portion, the camcorder searches in the reverse direction. If the current position is at a recorded portion, the camcorder searches in the forward direction. If the beginning or end of the tape is reached during Blank Search, the camcorder stops automatically.

A blank portion which is shorter than 5 seconds of tape may not be detected. The detected blank portion may be located between recorded scenes. Before you start recording, make sure there is no recorded scene after the blank portion. Playback Snapshot This camcorder allows you to take snapshots during video playback. Press **SNAPSHOT**. Shuttle Search Allows high-speed search in either direction during video playback. 1) During playback, press 5 for forward search, or 3 for reverse search. 2) To resume normal playback, press 4/9. During playback, press and hold 5 or 3. The search continues as long as you hold the button.

VIDEO RECORDING & PLAYBACK 1 Load a cassette. (pg. 17) 2 Set the Power Switch to "PLAY" while 22 EN VIDEO PLAYBACK Connections To A TV Or VCR 1 Make sure all units are turned off. 2 Connect the camcorder to a TV or VCR as shown in the illustration. If using a VCR, go to step 3.

If not, go to step 4. 3 Connect the VCR output to the TV input, referring to your VCR's instruction manual. To AV connector 4 Turn on the camcorder, the VCR and the TV. 5 Set the VCR to its AUX input mode, and set the TV to its VIDEO mode. 6 Start playback on the camcorder.

(Audio/Video cable (provided) pg. 21) To choose whether or not the following displays appear on the connected TV 1 2 3 Date/Time Set "DATE/TIME" to "ON" or "OFF". (pg. 23, 26) Time Code Set "TIME CODE" to "ON" or "OFF". (pg. 26) Indications other than date/time and time code Set "ON SCREEN" to "OFF", "LCD" or "LCD/TV". (pg. 23, 26) NOTES: TV VCR A Yellow to VIDEO IN (Connect when your TV/ VCR has only A/V input connectors). B Red to AUDIO R IN* C White to AUDIO L IN* * Not required for watching still images only. It is recommended to use the AC Adapter as the power supply instead of the battery pack.

(pg. 14) To monitor the picture and sound from the camcorder without inserting a tape, set the camcorder's Power Switch to "REC", then set your TV to the appropriate input mode. Make sure you adjust the TV sound volume to its minimum level to avoid a sudden burst of sound when the camcorder is turned on.

MENUS FOR DETAILED ADJUSTMENT EN 23 Changing The Menu Settings This camcorder is equipped with an easy-to-use, on-screen menu system that simplifies many of the more detailed camcorder settings. (pg. 23 26) Lock button Video Recording Menus FUNCTION (pg. 24) SETTING (pg. 24) SYSTEM (pg. 25) DISPLAY (pg. 25) 1) Press or to select the desired selection and press SET or .

The Sub Menu appears. Example: FUNCTION Menu Selected parameter FUNCTION WIPE/FADER EFFECT PROGRAM AE SHUTTER EXPOSURE W.BALANCE TELE MACRO OFF WHITE BLACK SLIDE SCROLL " " Indicator 2) Press or . Select the desired parameter and press SET or . Selection is complete.

Repeat the procedure if you wish to set other function menus. MENU 1 For Video Recording Menus: The " " indicator shows the setting that is currently saved inside the camcorder's memory. 3) Press MENU. The Menu Screen closes. Set the Power Switch to "REC" while pressing down the Lock Button located on the switch.

Set the recording mode to "M". (pg. 14) For Video Playback Menus: Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch. Video Playback Menus ADVANCED FEATURES REC MODE (pg. 26) SOUND MODE (pg. 26) NARRATION (pg. 26) BRIGHT (pg. 26) DATE/TIME (pg. 26) ON SCREEN (pg. 26) TIME CODE (pg.

26) 1) The Sub Menu appears. Sub Menu REC MODE SOUND MODE NARRATION BRIGHT DATE / TIME ON SCREEN TIME CODE 2 Open the LCD monitor fully. (pg. 18) 3 Press MENU. The Menu Screen appears. 4 Press or to select the desired function, and press SET or menu appears. Screen for Video Recording Menu FUNCTION SETTING SYSTEM DISPLAY . The selected function Screen for Video Playback Menu REC MODE SOUND MODE NARRATION BRIGHT DATE / TIME ON SCREEN TIME CODE Example: REC MODE Menu. Repeat the procedure if you wish to set other function menus.



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The " " indicator shows the setting that is currently saved inside the camcorder's memory.

Press or to select the desired parameter and press SET or . Selection is complete. 2) Press MENU. The Menu Screen closes. 5 Setting procedure hereafter depends on the selected function.

NOTES: Press whenever you want to cancel or return to the previous Menu Screen. You cannot enter Menu screen during recording. 24 EN MENUS FOR DETAILED ADJUSTMENT It is recommended that tapes recorded in the LP mode on this camcorder be played back on this camcorder. During playback of a tape recorded on another camcorder, blocks of noise may appear or there may be momentary pauses in the sound. Recording Menus FUNCTION The menu settings can be changed only when the Power Switch is set to "REC".

[] = Factory-preset WIPE/FADER (pg. 31), "Wipe or Fader Effects" SOUND MODE [12BIT]: Enables video recording of stereo sound on four separate channels, (Equivalent to the 32 kHz mode of previous models) 16BIT: Enables video recording of stereo sound on two separate channels. (Equivalent to the 48 kHz mode of previous models) DIS OFF: Disables the function. [ON]: To compensate for unstable images caused by camera-shake, particularly at high magnification. EFFECT (pg. @@@@) ZOOM W. BALANCE (pg. @@@@) You can shoot a subject as large as possible at a distance of approx. 40 cm. @@@@50X: Allows you to use the Digital Zoom.

@@800X: Allows you to use the Digital Zoom. @@@@[AGC]: The overall appearance may be grainy, but the image is bright. AUTO : The shutter speed is automatically adjusted. @@The overall appearance may be grainy. @@WIND CUT [OFF]: Disengages the function. ON : Helps cut down on noise created by wind. The " " indicator appears. The quality of the sound will change. This is normal. @@(pg.

15) DATE/TIME [OFF]: The date/time does not appear. ON: The date/time is always displayed. @@[] = Factory-preset. @@[ON]: A melody sounds when any operation is performed. It also activates the shutter sound effect.

(pg. 27) CAM RESET EXECUTE: Resets all settings to the factory-preset. [RETURN]: Does not reset all settings to the factory-preset. @@@@TIME CODE [OFF]: Time code is not displayed. ON: Time code is displayed on the camcorder and on the connected TV.

Frame numbers are not displayed during recording (pg. 19). DEMO MODE OFF: Automatic demonstration will not take place. @@@@ The DISPLAY settings except "BRIGHT" and "LANGUAGE" are effective only for shooting. When the Menu Screen is closed after "DEMO MODE" is turned "ON". With "DEMO MODE" set to "ON", if there is no operation for about 3 minutes after the Power Switch is set to "REC". Performing any operation during the demonstration stops the demonstration temporarily. If no operation is performed for more than 3 minutes after that, the demonstration will resume. [] = Factory-preset BRIGHT pg. 16, "Brightness Adjustment Of The Display" CLOCK ADJ.

pg. 15, "Date/Time Settings" NOTES: If a cassette is in the camcorder, the demonstration cannot be turned on. "DEMO MODE" remains "ON" even if the camcorder power is turned off. If "DEMO MODE" remains "ON", some functions will not be available. After viewing demo, set to "OFF". ADVANCED FEATURES 26 EN MENUS FOR DETAILED ADJUSTMENT BRIGHT pg. 16, "Brightness Adjustment Of The Display". DATE/TIME [OFF] / ON Playback Menus [] = Factory-preset SOUND MODE and NARRATION During tape playback, the camcorder detects the sound mode in which the recording was made, and plays the sound back. Select the type of sound to accompany your playback picture. According to the menu access explanation on page 23, select "SOUND MODE" or "NARRATION" from the Menu Screen and set it to the desired parameter.

The settings below are effective only for video playback except "BRIGHT" and "REC MODE". The parameters (except "OFF" in ON SCREEN, SOUND MODE and NARRATION settings) are the same as in the description on (pg. 24). REC MODE [SP*] / LP [OFF]: The date/time does not appear. ON: The date/time is always displayed.

ON SCREEN OFF / [LCD] / LCD/TV When set to "OFF", the camcorder's display disappears. TIME CODE [OFF] / ON pg. 19, "Time Code" Allows you to set the video recording mode (SP or LP) depending on your preference. * SP indicator does not appear on the screen. SOUND MODE [STEREO]: Sound is output on both "L" and "R" channels in stereo.

SOUND L : Sound from the "L" channel is output. SOUND R : Sound from the "R" channel is output. NARRATION Although it is not possible to perform audio dubbing with this camcorder, you can hear sound from an audio-dubbed tape during playback using this function. [OFF]: Original sound is output on both "L" and "R" channels in stereo. ON: Dubbed sound is output on both "L" and "R" channels in stereo. MIX: Original and dubbed sounds are combined and output in stereo on both "L" and "R" channels. FEATURES FOR RECORDING EN 27 Wide Mode This camcorder allows you to choose the type of image output format for recording. [] = Factory-preset Snapshot (Record Still Image On Tape) This feature lets you record still images that look like photographs onto a tape. 1 Set the Power Switch to "REC". 2 Press 16:9 button repeatedly to choose your selection.

4:3 16:9 1 Set the Power Switch to "REC". 2 Press SNAPSHOT. Night-Scope Makes dark subjects or areas even brighter than they would be under good natural lighting. Although the recorded image is not grainy, it may look as if it is strobing due to the slow shutter speed. 1 Set the Power Switch to "REC". 2 Set the recording mode to "M". (pg. 14) 3 Press NIGHT so that the Night-Scope indicator " The shutter speed is automatically adjusted to provide up to 30 times sensitivity. " " appears beside " " while the shutter speed is being automatically adjusted. " appears.

To deactivate Night-Scope Press NIGHT again so that the Night-Scope indicator disappears. NOTES: During Night-Scope, "GAIN UP" or "DIS" in SETTING Menu pg. 24 cannot be activated. Night-Scope cannot be activated simultaneously with "SNOW" or "SPORTS" of "PROGRAM AE", or all modes of "SHUTTER". pg.

32 During Night-Scope, it may be difficult to bring the camcorder into focus. To prevent this, use of a tripod is recommended. ADVANCED FEATURES [4:3]: Records with no change in the screen ratio. For playback on a TV with a normal screen ratio. When using this mode on a TV with a normal screen ratio, refer to your TV's instruction manual.

16:9: For playback on TVs with an aspect ratio of 16:9.



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Naturally expands the image to fit the screen without distortion. The indicator appears. When using this mode, refer to your wide-screen TV's instruction manual. During playback/recording on 4:3 TVs/LCD monitor/ viewfinder, the image is elongated vertically. There is the sound effect of a shutter closing. The "PHOTO" indication appears and a still image will be recorded for approx. 5 seconds, then the camcorder re-enters the Record-Standby mode. You can perform Snapshot also during recording. A still image will be recorded for approx.

5 seconds, then the normal recording resumes. Snapshot mode cannot be used when the 16:9 16:9 indicator) is selected. wide mode (Motor Drive Mode Keeping SNAPSHOT pressed in step 2 provides an effect similar to serial photography. (Interval between still images: approx. 1 second) 28 EN FEATURES FOR RECORDING Manual Focus The camcorder's Full Range AF system offers continuous shooting ability from close-up (as close as approx. 5 cm to the subject) to infinity. However, correct focus may not be obtained depending on the shooting condition. In this case, use the manual focus mode. Exposure Control Manual exposure control is recommended in the following situations: When shooting using reverse lighting or when the background is too bright.

When shooting on a reflective natural background such as at the beach or when skiing.

When the background is overly dark or the subject is bright. 1 Set the Power Switch to "REC". 2 Set the recording mode to "M" (pg. 14) 3 Press FOCUS. The manual focus indicator appears.

1 Set the Power Switch to "REC". 2 Set the recording mode to "M" (pg. 14). 3 Set "EXPOSURE" to "MANUAL" in FUNCTION Menu (Manual focus indicator The exposure control Menu appears. pg.

24) 4 Press or on a subject. to focus 4 To brighten the image, press the image, press When the focus level cannot be adjusted any further or closer, " " or " " will blink. 5 Press SET. Focus adjustment is complete. To reset to Auto Focus Press FOCUS twice. Manual focus is recommended in situations listed below. +3 exposure has the same effect as the backlight compensation. (pg. 29) 3 exposure has the same effect as when PROGRAM AE is set to "SPOTLIGHT". (pg.

32) . To darken . (maximum ± 6) 5 Press SET or complete. . Exposure adjustment is When two subjects overlap in the same scene. When illumination is low.* When the subject has no contrast (difference in brightness and darkness), such as a flat, onecolour wall, or a clear, blue sky.* When a dark object is barely visible in the LCD monitor or the viewfinder.* When the scene contains minute patterns or identical patterns that are regularly repeated. When the scene is affected by sunbeams or light reflecting off the surface of a body of water.

When shooting a scene with a high-contrast background. * The following low-contrast warnings appear blinking: , , and . To return to automatic exposure control Select "AUTO" in step 3. NOTES: You cannot use the manual exposure control at the same time when "PROGRAM AE" is set to "SPOTLIGHT" or "SNOW" (pg. 32), or with the backlight compensation.

If the adjustment does not cause any visible change in brightness, set "GAIN UP" to "AUTO". (pg. 23, 24) FEATURES FOR RECORDING EN 29 Iris Lock Like the pupil of the human eye, the iris contracts in well-lit environments to keep too much light from entering, and dilates in dim environments to allow in more light. Use this function in the following situations: To cancel Backlight Compensation Press BACKLIGHT twice so that the " " indicator disappears. "

NOTE: Using Backlight Compensation may cause the light around the subject to become too bright and the subject to become white.

When shooting a moving subject. When the distance to the subject changes (so its size in the LCD monitor or the viewfinder changes), such as when the subject is backing away. When shooting on a reflective natural background such as at the beach or when skiing. When shooting objects under a spotlight.

When zooming. Spot Exposure Control Selection of a spot metering area enables more precise exposure compensation. You can select one of the three metering areas on the LCD monitor/viewfinder. 1 Set the Power Switch to "REC". 2 Set the recording mode to "M" (pg. 14).

3 Set "EXPOSURE" to "MANUAL" in FUNCTION Menu. (The exposure control menu appears. 1 Set the Power Switch to "REC". 2 Set the recording mode to "M" (pg. 14). 3 Press BACKLIGHT twice so that the Spot Exposure Control indicator " " appears. A spot metering area frame appears at the centre of the LCD monitor/viewfinder. pg. 24) monitor or the viewfinder, then press and hold SET for over 2 seconds. The " " indication appear.

5 Press SET. 5 Press SET or .The iris is locked. 6 Press MENU. The Menu screen closes.

The " " indication appears. To return to automatic iris control Select "AUTO" in step 3. The exposure control indicator and " " disappear. Spot Exposure Control is engaged. Exposure is adjusted to make the brightness of the selected area most appropriate.

To lock the exposure control and the iris After step 3, adjust the exposure by pressing or . Then lock the iris in steps 4 - 6. For automatic locking, select "AUTO" in step 3. The exposure control and the iris become automatic. To lock the iris After step 4, press and hold SET over 2 seconds. The " " indication appears and the iris is locked. To cancel Spot Exposure Control Press BACKLIGHT once so that the " " indicator disappears. NOTES: Backlight Compensation Backlight compensation brightens the subject quickly. With simple operation, backlight compensation feature brightens the dark subject portion by increasing the exposure. You cannot use the Spot Exposure Control at the same time with following functions.

16:9 in "WIDE MODE" (pg. 27) · "STROBE" in "EFFECT" (pg. 31) · Digital Zoom (pg. 19) Depending on the shooting location and condition, optimum result may not be attained. 1 Set the Power Switch to "REC". 2 Set the recording mode to "M" (pg. 14). 3 Press BACKLIGHT so that the Backlight Compensation indicator " " appears. ADVANCED FEATURES 4 Adjust zoom so that the subject fills the LCD 4 Press or to select the desired spot metering area frame. 30 EN FEATURES FOR RECORDING White Balance Adjustment The white balance refers to the correctness of colour reproduction under various lighting.

If the white balance is correct, all other colours will be accurately reproduced. The white balance is usually adjusted automatically.



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However, more advanced camcorder operators control this function manually to achieve a more professional colour/ tint reproduction. To change the setting Set "W.BALANCE" in FUNCTION Menu (pg.

24) Manual White Balance Adjustment Adjust the white balance manually when shooting under various types of lighting. 1 Set the Power Switch to "REC". White paper 2 Set the recording mode to "M" (pg. 14). 3 Hold a sheet of plain white paper in front of the subject. Adjust zoom or position yourself so that the white paper fills the screen. The selected mode indicator except "AUTO" appears. [AUTO]: White balance is adjusted automatically. MWB: Adjust the white balance manually when shooting under various types of lighting. ("Manual White Balance Adjustment") FINE: Outdoors on a sunny day. CLOUD: Outdoors on a cloudy day. [] = Factory-preset To return to automatic white balance Set "W.BALANCE" to "AUTO". (pg. 24) 4 Select FUNCTION Menu.

(pg. 24) 5 Select "MWB" in "W.BALANCE" menu. pg. 24), then press and hold SET or until begins blinking. When the setting is completed, stops blinking. (6 Press SET or to engage the setting. 7 Press MENU. The Menu Screen closes and the Manual White Balance indicator displayed. is NOTES: In step 3, it may be difficult to focus on the white paper.

In such a case, adjust focus manually. (pg. 28) A subject can be shot under various types of lighting conditions indoors (natural, fluorescent, candlelight, etc.). Because the colour temperature is different depending on the light source, the subject tint will differ depending on the white balance settings. Use this function for a more natural result. Once you adjust white balance manually, the setting is retained even if the power is turned off or the battery removed. FEATURES FOR RECORDING EN 31 Wipe Or Fader Effects These effects let you make pro-style scene transitions. Use them to spice up the transition from one scene to the next. Wipe or Fader works when video recording is started or stopped.

Program AE, Effects and Shutter Effects 1 Set the Power Switch to "REC". 2 Set "EFFECT", "PROGRAM AE" or "SHUTTER" in FUNCTION Menu. (pg. 24) The EFFECT, PROGRAM AE or SHUTTER menu disappears and the selected effect is activated. The selected effect indicator appears. To deactivate the selected effect Select "OFF" in step 2. The effect indicator disappears. 1 Set the Power Switch to "REC". 2 Set the recording mode to "M" (3 Set "WIPE/FADER" (pg. 24) pg.

14). The WIPE/FADER menu disappears and the effect is reserved. The selected effect indicator appears. 4 Press the Recording Start/Stop Button to activate the Fade-in/out or Wipe-in/out. To deactivate the selected effect Select "OFF" in step 3. The effect indicator disappears. NOTES: NOTE: You can extend the length of a Wipe or Fader by pressing and holding the Recording Start/Stop Button. WIPE/FADER OFF: Disables the function. (Factory-preset) WHITE BLACK : Fade in or out with a white screen. : Fade in or out with a black screen.

EFFECT OFF: Disables the function. (Factory-preset) SEPIA : Recorded scenes have a brownish tint like old photos. Combine this with the Cinema mode for a classic look. MONOTONE : Like classic black and white films, your footage is shot in B/W. CLASSIC : Gives recorded scenes a strobe effect.

STROBE : Your recording looks like a series of consecutive snapshots. SLIDE : Wipe in from right to left, or wipe out from left to right. SCROLL : The scene wipes in from the bottom to the top of a black screen, or wipes out from top to bottom, leaving a black screen. ADVANCED FEATURES Program AE, Effects and Shutter Effects can be changed during Record-Standby. Some modes of Program AE and Shutter Effects cannot be used during Night-Scope.

When a subject is too bright or reflective, a vertical streak may appear (smear phenomenon). Smear phenomenon tends to occur when "SPORTS" or mode of "SHUTTER 1/500 and 1/4000" is selected. 32 EN FEATURES FOR RECORDING PROGRAM AE OFF: Disables the function. (Factory-preset) SPORTS (Variable Shutter Speed: 1/250 1/4000): This setting allows fast-moving images to be captured one frame at a time, for vivid, stable slow-motion playback. The faster the shutter speed, the darker the picture becomes. Use the shutter function under good lighting conditions. SNOW : Compensates for subjects that may otherwise appear too dark when shooting in extremely bright surroundings such as in the snow. SPOTLIGHT : Compensates for subjects that may otherwise appear too bright when shooting under extremely strong direct lighting such as spotlights. TWILIGHT : Makes evening scenes look more natural. White Balance (pg.

30) is automatically set to " ", but can be changed to your desired setting. When Twilight is chosen, the camcorder automatically adjusts the focus from approx. 10 m to infinity. From less than 10 m, adjust the focus manually. SHUTTER OFF: Disables the function. (Factory-preset) 50 SHUTTER 1/50: The shutter speed is fixed at 1/50th of a second. Black bands that usually appear when shooting a TV screen become narrower. SHUTTER 1/120: The shutter speed is fixed at 1/120th of a second. The flickering that occurs when shooting under a fluorescent light or mercury-vapour lamp is reduced. SHUTTER 1/500 / SHUTTER 1/4000: These settings allow fast-moving images to be captured one frame at a time, for vivid, stable slow-motion playback by fixing shutter speed variables.

Use these settings when an automatic adjustment does not work well, using SPORTS mode. The faster the shutter speed, the darker the picture becomes. Use the shutter function under good lighting conditions. EDITING EN 33 Dubbing To A VCR 1 Following the illustrations, connect the camcorder and the VCR's input connectors. 2 Start playback on the camcorder.

(pg. 21) 3 At the point you want to start dubbing, start recording on the VCR. (Refer to the VCR's instruction manual). 4 To stop dubbing, stop recording on the VCR, then stop playback on the camcorder. To AV connector NOTES: Audio/Video cable (provided) 1 2 3 TV VCR A Yellow to VIDEO IN (Connect when your TV/VCR has only A/V input connectors).

B Red to AUDIO R IN* C White to AUDIO L IN* * Not required for watching still images only. ADVANCED FEATURES It is recommended to use the AC Adapter as the power supply instead of the battery pack. (pg. 14) To choose whether or not the following displays appear on the connected TV · Date/time Set "DATE/TIME" to "ON" or "OFF". (pg. 23, 26) · Time code Set "TIME CODE" to "OFF" or "ON". (pg. 23, 26) · Indications other than date/time and time code Set "ON SCREEN" to "OFF", "LCD" or "LCD/TV".



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