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You can read the recommendations in the user guide, the technical guide or the installation guide for SONY PMW-EX3. You'll find the answers to all your questions on the SONY PMW-EX3 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

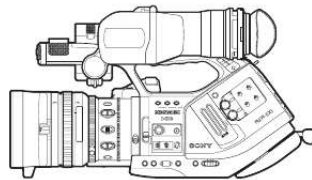
User manual SONY PMW-EX3
User guide SONY PMW-EX3
Operating instructions SONY PMW-EX3
Instructions for use SONY PMW-EX3
Instruction manual SONY PMW-EX3

SONY

3-878-039-11(1)

Solid-State Memory Camcorder

PMW-EX3



Operating Instructions

XDCM EX
CINEALTA

SXS
Exmor
CMOS Sensor



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Manual abstract:

@@@Do not install the appliance in a confined space, such as book case or built-in cabinet. For the customers in Europe This product with the CE marking complies with both the EMC Directive and the Low Voltage Directive issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European standards: · EN60065 : Product Safety (AC adaptor) · EN55103-1 : Electromagnetic Interference (Emission) · EN55103-2 : Electromagnetic Susceptibility (Immunity) This product is intended for use in the following Electromagnetic Environments: E1 (residential), E2 (commercial and light industrial), E3 (urban outdoors), E4 (controlled EMC environment, ex. TV studio) The manufacturer of this product is Sony Corporation, 1-7-1 Konan, Minato-ku, Tokyo, Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. @@@@This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. You are cautioned that any changes or modifications not expressly approved in this For the State of California, USA only Perchlorate Material - special handling may apply, See www.dtsc.ca.

gov/hazardouswaste/perchlorate Perchlorate Material : Lithium battery contains perchlorate. For the customers in the USA and Canada RECYCLING LITHIUM-ION BATTERIES Lithium-Ion batteries are recyclable. You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you. For more information regarding recycling of rechargeable batteries, call toll free 1-800822-8837, or visit <http://www.rbrc.org>

org/ Caution: Do not handle damaged or leaking Lithium-Ion batteries. For the customers in Taiwan only 3 Table of Contents Overview Package Configuration

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For immediate recording start In recording on flash memory cards, the XDCAM EX system makes each new recording on an empty area of the card. This is extremely convenient, as the camera operator need not worry about accidentally recording over good takes or search through footage for the correct position to start the next recording. Instant-access thumbnail display with "Expand" function Each time a recording is started and stopped on the XDCAM EX camcorder, the video and audio signals are recorded as one clip. Furthermore, thumbnails are automatically generated for each clip as a visual reference, allowing the operator to cue-up to a desired scene simply by guiding the cursor to a thumbnail. For further convenience, the 'Expand' function allows one selected clip in the Thumbnail display to be divided into 12 equal time intervals, each with its own thumbnail identifier. This is useful if you wish to quickly search for a particular scene within a lengthy clip. Newly developed lens mount The PMW-EX3 employs a new lens mount (1/2-inch EX Mount) of superior optical characteristics in a compact size, which permits the supplied standard zoom lens and an optionally available lens specifically designed for the PMWEX3 to be mounted. For use of a conventional Sony 1/2-inch Bayonet Mount lenses, a lens adaptor is provided as a supplied accessory.

VCL-614B2X high-performance zoom lens (supplied) The PMW-EX3 is equipped with a zoom lens specifically designed for the camcorder, to offer optimum shooting performance. Independent rings for zoom, focus, and iris adjustment give the user a high level of smooth operational control. The lens has versatile functions for easy and precise focus adjustments. · One-push Auto Focus · MF Assist · Optical Image Stabilizer (Steady Shot) Overview Creative Recording Modes and Settings 23.98P native recording The PMW-EX3 camcorder, a new member of Sony's legendary CineAlta1 family, though compact offers native 23.98P recording capability. Slow & Quick Motion function The PMW-EX3 offers a Slow & Quick Motion function, commonly known as overcranking and undercranking in film shooting, which enables you to create unique 'looks' or special effects of slow- and fast-motion images. Slow Shutter function The PMW-EX3 offers a Slow Shutter function for capturing clear images in low-light environments. This allows the shutter speed to be changed to a maximum of 64-frame accumulation period. Selectable gamma curves The PMW-EX3 provides various types of gamma identical to those of other CineAlta camcorders. Interval Recording function The PMW-EX3 offers an Interval Recording function that intermittently records signals at predetermined intervals. This is convenient for shooting over long periods of time and also when creating pictures with special effects of extremely quick motion. Cutting-edge Camera Technologies 1/ -inch type three "Exmor"1) CMOS sensors 2 The PMW-EX3 is equipped with three newly developed 1/2-inch "Exmor" CMOS Sensors, which deliver excellent picture performance with full HD resolution. 12 Features Frame Recording function Frame Recording is a unique feature of the PMWEX3 camcorder that is especially useful for clayanimation shooting. With this function, images for pre-determined frame are recorded each time the record button is pressed.

Shutter-angle settings In addition to the electric shutter speed controls, the PMW-EX3 also has a "shutter angle" control, which is familiar to cinematographers. Picture Profile feature The Picture Profile feature allows the camera operator to easily call up customized picture tonal settings to suit particular shooting conditions. Shot Transition function The Shot Transition function allows for smooth automatic scene transitions. The operator can program start and end settings for zoom, focus, and white balance into the A and B buttons, and with a press of the Start button a smooth transition will take place according to the set time. · Operations from the optional Remote Control Units: The camcorder can be operated from the RM-B750/B150 Remote Control Unit.

1) Sony, XDCAM, XDCAM EX, SxS, i.LINK, Exmor, CineAlta, and Remote Commander are trademarks of Sony Corporation. 2) HDV is a trademark of Sony Corporation and Victor Company of Japan, Limited. All other trademarks are the property of their respective owners. Overview XDCAM EX web sites For information on XDCAM EX, visit the following web sites: United States <http://www.sony.com/xdcamex> Canada <http://www.sony.ca/xdcamex> Europe, Middle East, Africa, and Russia <http://www.sonybiz>.

net/xdcamex Latin America <http://www.sonypro-latin.com/xdcamex> Australia www.sony.com.au/xdcamex Asia (except Korea, China, and Japan) <http://pro.sony.com.hk> Korea <http://bp.sony>.

co.kr/xdcamex China <http://pro.sony.com.cn/minisite/XDCAMEX> Japan <http://www.sony.co.jp/XDCAMEX>

A variety of functions and designs for high operability · Color viewfinder incorporated with a 3.5-inch color LCD inside: Flipping up the eyepiece, you can also operate the camcorder while directly viewing the LCD. · Expanded Focus · Peaking · Depth-of-field indicator · Brightness-level display · Histogram indicator · Four assignable buttons · Zoom and recording start/stop operations enabled both on the handle and the grip · Long operating time with a battery pack · Wide array of interfaces, including USB and i.

LINK1) · ATW (Auto Tracing White Balance) · Built-in ND filter wheel · Selectable gain · High-speed picture search: ×4, ×15 · Freeze Mix function · IR Remote Commander1) supplied · Input/output connectors for external synchronization Features 13 Using the CD-ROM The supplied CD-ROM includes the following files: PMW-EX3 Operating Instructions The Operating Instructions for the PMW-EX3 (Japanese, English, French, German, Italian, Spanish and Chinese) are provided in PDF format. SxS Device Driver Software Driver for using SxS memory cards with a computer having an ExpressCard slot. Information on installation of the software is included in the ReadMe (Japanese, English, French, German, Italian, Spanish, and Chinese) in PDF format. XDCAM EX Clip Browsing Software Application program for operating clips recorded with XDCAM EX-series models on a computer. Information on installation and operations of the software is included in the User's Guide (Japanese, English, French, German, Italian, Spanish, and Chinese) in PDF format. A cover page appears automatically in your browser. If it does not appear automatically in the browser, double-click on the index.htm file on the CD-ROM. Overview 2 Select and click on the manual that you wish to read. This opens the PDF file.

Memo The files may not be displayed properly, depending on the version of Adobe Reader. In such a case, install the latest version you can download from the URL mentioned in "Preparations" above.



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Note If you have lost or damaged the CD-ROM, you can purchase a new one to replace it. Contact your Sony service representative. System Requirements for Using the Applications The following operating conditions are recommended for using the software recorded on the CD-ROM: Reading the CD-ROM Manuals Preparations The following program must be installed on your computer in order to read the operation manuals contained on the CD-ROM. Adobe Reader Version 6.0 or higher SxS Device Driver Software Applicable hardware Computer conforming to ExpressCard/34 or ExpressCard/54 OS Microsoft Windows XP SP2 or later, Microsoft Windows Vista, or Mac OS X v10.4.9 or later For support information on the driver, refer to the following URL: <http://www.sony.net/SxS-Support/>

Memo If Adobe Reader is not installed, you can download it from the following URL: <http://www.adobe.com/> Adobe and Adobe Reader are trademarks of Adobe Systems Incorporated in the United States and/or other countries. XDCAM EX Clip Browsing Software OS Microsoft Windows XP SP2 or later (32-bit version), Microsoft Windows Vista (32-bit version), or Mac OS X v10.4.

To read the documents Do the following: 1 14 Insert the CD-ROM in your CD-ROM drive. Using the CD-ROM CPU Windows: Intel Pentium III 1GHz equivalent or higher (Intel PentiumD 3GHz equivalent or higher is recommended) Macintosh: Intel Core 2 Duo 2GHz or higher is recommended Memory Windows: 512 MB or more (1 GB or more is recommended) Macintosh: 1 GB or more is recommended · Microsoft, Windows, and Windows Vista are registered trademarks and/or trademarks of Microsoft Corporation in the United States and/or other countries. · Intel Core and Pentium are trademarks of Intel Corporation in the United States and/or other countries. · Macintosh and Mac OS are trademarks of Apple Inc. registered in the U.

S States and other countries. Overview Software Installation Do the following to install the software on the CD-ROM on your computer: 1 Insert the CD-ROM in your CD-ROM drive. A cover page appears automatically in your browser. If it does not appear automatically in the browser, double-click on the index.htm file on the CD-ROM. 2 Select and click on the software that you wish to install. The installer for the software starts up. Follow the displayed instructions: For details, refer to the User's Guide or ReadMe of the software. Uninstalling an application program Windows computer Choose "Start," "Control Panel" then "Add or Remove Programs" and specify the program to be deleted. Macintosh computer Drop the folder of the software (default: /Application/XDCAM EX Clip Browser) into Trash.

Using the CD-ROM 15 Parts Identifications R ON VO ITO LR CA NC EL T SE PA U G SE /S F F M L/W J SE D L IL NA PLA Y/NE XT TH V STO RE P I STA R RT EC /S TO P F j PR EV s L UM HO LD 16:9 WI DE SC REEN H L OF F 81 .2 ft mm 40 25 1.9 30 10 2.8 15 4 15 5 10 5.6 10 3 5.8 OFF 8 16 C Overview Camcorder 1 2 3 Operation panel on the handle (page 18) 5 6 7 8 A TRA SHO NSIT T ION B TC/U -BIT/ DUR ATIO N AF Full MF STEA SHOTDY 9 OUT SDI IRIS LENS INFO HDV BRT DISP HISTOGR AM ASS IGN MANU MACRO AUTO 1 ND FILTER 2 3 SLOT SS ACCE B SELE CT O AUT AL MANU IN EXT IN OCK GENL TC IN TE REMO T TC OU ON FOC US 2 1 A CH-1 AUDIO L LEVE AUDIOCT SELE AUDIO IN IN EXT 4 MAN U PUS AUTO H AF + GAIN L M H FULL AUTO FRAME CH-2 O AUT AL MANU Rear connector panel (page 18) OFF WHITE ATW BAL B A PRST BARS/CA M PM OPEN X W-E 3 STAT US MENU SEL/SE Front lower operation block (page 19) T CAN CEL PICTUR PRO E FILE CAM 10 Audio control block (page 18) ERA OFF MED IA Side operation panel (page 19) 12 11 For functions and usage, see the pages shown in parentheses. Card slot block (page 19) 10. Shoulder pad It can be pulled out as follows: AUDIO L LEVE CH-2 S O AUT AL MANU EX 1. Cable clamp for external microphone (page 68) TE REMO T TC OU 2. External microphone holder (page 68) 3.

Front accessory shoe Attach an optional accessory, such as a video light. PM OPEN X W-E 3 MED IA 4. Lens mount lever (page 34) 5. Handle 6. Built-in speaker (page 96) 7. Cable clamp for optional accessories (page 68) Push in the knob at the bottom to unlock. Hold the knob depressed when pulling out or pushing in the pad. 11. Power (CAMERA/MEDIA) switch (page 28) 8. Rear accessory shoe Attach an optional accessory, such as the PHU-60K Professional Hard Disk Unit (page 45).

12. PICTURE PROFILE button (page 84) 9. Rear tally lamp (page 48, page 148) 16 Parts Identifications Overview 13 14 ING PEAK DIS Y/BATT PLA T BRIGH ST NTRA CO A ZEBR INFO 25 26 27 Viewfinder control panel (page 20) 18 19 20 21 22 23 24 D C IN M O O NIT UO TR S V ID E O CH-1 AUDIO CH-2 OUT COM PON OUT ENT LOCK RELEAS E LOCK RELEASE Bottom (page 20) Connectors 18 to 20 have indivial caps, and 21 to 23 are behind a shared cover. 13. Eyecup The eyecup can be attached in the reversed direction. To reattach the eyecup, stretch it a little to attach to the viewfinder and fit the rim of the eyecup into the groove of the viewfinder. 14. Hooks for the shoulder strap (left and right) Attach the supplied shoulder strap as shown below. 3 2 1 4 15. BATTERY RELEASE button (page 26) 16.

Battery pack receptacle (page 26) 17. Headphone jack (stereo mini jack) (page 69, page 96) 18. DC IN (DC power input) connector (page 27) A TRA SHO NSIT T ION TC/U B -BIT/ DUR ATIO N Upper operation panel (page 19) Y ER E TT BA LEAS RE CH-1 15 16 17 GE IMA ROR ON MIR OFF AUD IO IN CH-2 LINE MIC MIC+48V LINE MIC MIC+48V 28 29 30 31 L OFF H I PR EV j HO LD ST R AR EC T/ST OP L F REV s NEX T ST OP J FW D CAN CEL TH UM NAI L PL AY /PAU G SE /S F L M ON IT OR SE L/ SE T VO L R STA ST RT OP / RE LE AS E RE REC VI EW EX PA FO ND CU ED S 19. MONITOR OUT connector (BNC type) (page 129) 20. S VIDEO connector (4-pin) (page 129) 21. AUDIO OUT CH-1/CH-2 connectors (RCA phono) (page 129) 22. COMPONENT OUT connector (Mini D) (page 129) 23. USB connector (Mini B) (page 130) 24. Lens mount stopper switch (page 34) 25. Eyepiece focusing knob (page 30) 26.

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L R MONITOR VOL 1 2 3 4 5 6 7 THUMBNAIL SEL/SET CANCEL 9 10 11 12 GENLOCK IN HDV SDI OUT F REV PLAY/PAUSE F FWD j PREV l G/S
 STOP s J NEXT L REC START/STOP 1 4 13 2 14 TC IN 5 REMOTE HOLD TC OUT 8 H L OFF 3 6 1. MONITOR VOL (volume) buttons (page 69, page 96)
 2. THUMBNAIL button (page 94) 3. PLAY/PAUSE button (page 94) 4.
 F REV (fast reverse) button (page 95) 5. PREV (previous) button (page 95) 6. STOP button (page 96) 7. On-handle ZOOM button (page 60) 8. Zoom speed
 switch (page 60) 9. CANCEL button (page 111) 10. SEL/SET (selection/set) button (Joystick) (page 111) It functions accordingly when you move it up
 (forward), down (rearward), left, or right, or you push along the axis. It is called "the joystick" in the subsequent operating instructions. 1. i.
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 (page 55) 7.
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 HISTOGRAM ASSIGN 1 2 OPEN 1 2 3 ND FILTER 2 1 FULL AUTO FRAME + GAIN OFF L M H 3 4 5 6 7 8 9 10 Slide the cover upward to unlock. 3 4
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 VCL-614B2X (Supplied) Lens control block (page 21) Viewfinder control panel 1 2 3 AF ft mm 40 81 .2 Full MF STEADY SHOT 10 10 3 5.8 OFF ON US 2
 PEAKING CONTRAST BRIGHT ST ST ART/ OP MANU AUTO PUSH AF Controls on the grip (page 21) EX PA FO ND CU ED S REL R REC EA EV SE
 IEW MIRROR IMAGE DISPLAY/BATT INFO OFF ON ZEBRA 4 5 6 ZOOM MANU SERVO 1. PEAKING control (page 62) 2. CONTRAST control (page 30)
 3.
 BRIGHT control (page 30) 4. MIRROR IMAGE switch (page 31) 5. DISPLAY/BATT INFO button (page 23) 6. ZEBRA button (page 54) 3 Cover of the lens
 control block (See "Note" below.) LENS REMOTE 4 1.
 Lens hood 2. Lens cap open/close lever (page 47) 3. ZOOM switch (page 59) 4. LENS REMOTE connector (page 61) Note Bottom The lens is properly
 adjusted at the factory. Do not touch the controls of the lens control block.
 To remove the lens hood 1 Loosen the hood fixing screw, 2 turn the hood in the direction of the arrow, 3 then pull it out. L PA US EC ST OP IL NE MO 1 1.
 Tripod receptacle Note 2 CH-1 TRANS SHOT ITION AUDIO A IN CH-2 2 8V LINE MIC MIC+4 8V LINE MIC MIC+4 LOCK RELE ASE Check that the size
 of the hole matches the screw of the tripod. If they do not match, the camcorder cannot be attached to the tripod securely. C J XT E SE NIT OR 16 FOC 8 5.6
 1 30 10 25 MAN U AUT O 15 MACRO 15 5 4 2.8 VO L 1.9 IRIS L/S F FW D CA NC EL ET R Hood fixing screw ST ST ART/ OP RE LE AS E RE REC VI EW
 EX PA FO ND CU ED S 1 3 2. Backup battery holder (page 144) 20 Parts Identifications To reattach the hood, align the marks on the hood with those on the
 camcorder, turn it in the opposite direction from that when you removed it, then tighten the fixing screw. 3.
 REC REVIEW button (page 71) 4. EXPANDED FOCUS button (page 62) 5. Servo zoom lever (page 60) Overview Lens control block IR Remote Commander
 (Supplied) 3 81.2 STEADY SHOT 1 AF FULL MF 2 The buttons without remarks can be used in the same manner as the corresponding buttons on the
 camcorder. 4 2.8 1.9 IRIS 4 5 6 7 ft mm 1 2 1 SHOTMARK 40 25 MANU AUTO 5.6 30 10 MACRO T ZOOM PUSH SET 15 8 15 5 16 2 W 10 OFF ON
 FOCUS MANU AUTO PUSH AF 8 1. Focus ring (page 61) 2. Zoom ring (page 59) 3.
 Iris ring (page 58) 4. STEADY SHOT button (page 64) 5. IRIS switch (page 58) 6. MACRO switch (page 64) 7. FOCUS switch (page 62) 8.
 PUSH AF (momentary auto focus) button (page 63) 3 4 5 6 7 8 THUMBNAIL SUB CLIP PREV PLAY/PAUSE NEXT STOP . FREV u > FFWD x 9 10 11 12
 13 10 3 5.8 C m REC M REC PAUSE PUSH AF z X 1. ZOOM T/W (telephoto/wide-angle) button 2. SHOTMARK 1 and 2 buttons (page 70, page 103)
 Controls on the grip 3.
 THUMBNAIL button 4. PREV (previous clip jump) button 5. F REV (fast reverse) button 6. PLAY/PAUSE button 7. REC (record) buttons Press the z button
 together with the unmarked button (safety button) to start recording. 1 2 3 4 5 8. REC PAUSE buttons Press the X button together with the unmarked button
 (safety button) to pause recording. ST ST ART OP / RE LE AS S E EX P FO AND CU E S SD RE RE VI C EW 9. PUSH SET button (four-way arrow key) It
 functions the same as the SEL/SET button (joystick) on the camcorder. LOCK RELE ASE 10.
 NEXT button 11. STOP button 12. F FWD (fast forward) button 13. PUSH AF button 1. REC START/STOP button (page 48) 2. RELEASE (grip release)
 button (page 36) Parts Identifications 21 Note The SUB CLIP button does not function with this camcorder.



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When you use the remote commander, see "Using the IR Remote Commander" on page 39. Overview 22 Parts Identifications On-Screen Indications Overview Indications in Camera Mode When this unit is in Camera mode (mode for recording), pressing the DISPLAY/BATT INFO button displays the statuses and settings of this unit in the viewfinder. When you press the DISPLAY/BATT INFO button again, these indications are canceled. The recording status indication, such as "zREC," is always displayed, regardless of operation of the DISPLAY/BATT INFO button.

Remarks [M]: The indication of the items named with this suffix can be independently turned on/off with "Display On/Off" of the VF SET menu (see page 121). [A]: The indication of items named with this suffix can be turned on/off using the assignable buttons to which the corresponding on/off functions have been assigned (see page 72). [D]: The settings of the items named with this suffix can be changed using the Direct menu on the screen (see page 24). 1 6 7 8 2 3 S&Q REC 4 5 TCG 00:00:00:00 HQ 1080/24P S&Q Motion 29/24fps 120min STBY A: 25min B: 50min Z99 EX 25 24 23 22 21 20 19 74% 9 TLCS . 10 7 On 11 MF 12 High Light ND2 White Fader 1 1.

5 2 3 4 5 7 10 15 20 30 oo m CH1 ATW 4300K PPOFF ND1 ++F1.9 18dB SHT:1/2000 CH2 13 14 15 16 17 18 S&Q STBY Standby for Slow & Quick Motion recording Interval Recording in progress Standby for Interval Recording Frame Recording in progress Standby for Frame Recording 1. Battery remaining/DC IN voltage indication [M] (page 26) 2. i.LINK status indication Only when an external device is connected to the i.LINK connector (page 132), the status (zREC or STBY) of the device is displayed. zINT REC INT STBY zFRM REC FRM STBY 3. Special recording/operation status indication zREC STBY zS&Q REC Recording in progress Standby for recording Slow & Quick Motion recording in progress 4. Media status indication Memory card in slot A is active. Memory card in slot B is active. 5. Time data indication [M] (page 67) On-Screen Indications 23 6. Media remaining indication [M] (page 43) 7. Zoom position indication [M] (page 59) 8. Lens extender indication (available only when a lens extender is used) Direct Menu Operation The settings of the items named with a suffix [D] can be changed using the Direct menu on the screen.

Select "All," "Part," or "Off" for Direct Menu using "Direct Menu" (page 126) of the OTHERS menu. When the Direct mode is set to "Part," the operation is limited depending on the GAIN, SHUTTER, or WHITE BAL switch setting. When the Direct mode is set to "All," the GAIN, SHUTTER, and WHITE BAL switches are disabled. Note NI VO TO TH LR UM NA IL SE L/S ET CA PL NC AY EL /PAU G SE /S F W D J ST OP MO R NE XT L RE V 22. Depth-of-Field indication [M][A] (available only when a serial lens is mounted) 16:9 WID E SCR EEN I ST RE AR C T/S TO P F j PR EV S L HO LD 23. Brightness level indication [M][A] 24. Special recording mode indication [M] Frame Rec Interval Rec S&Q Motion xx/xx fps EXT-LK Frame Rec mode Interval Rec mode Slow & Quick Motion mode Time code external lock (see page 134) H L OF F ft mm 40 25 1.9 30 10 2.8 15 4 15 5 10 5.6 10 3 5. 8 OFF ON 8 16 C Overview 9. TLCS mode indication [M][D] (page 117) Backlight mode STD Standard mode Spotlight mode 10. Steady Shot indication [M] (page 64) 11. Focus mode indication [M] ([D] only in MF mode) (page 61) (available only when an auto-focus lens is mounted) 12. White balance mode and color temperature indications [M][D] (page 51) 13.

Picture profile indication [M][D] (page 84) 14. ND filter indication [M] (page 50) 15. Iris position indication [M][D] (page 58) 16. Gain indication [M][D] (page 55) 17. Shutter mode/shutter speed indication [M][D] (page 56) When the indicator of the FULL AUTO button is lit, the Direct Menu operation is disabled for the functions that are forcibly set to the automatic mode in Full Auto mode (page 48).

To operate the Direct menu Use the joystick on the handle or the jog dial on the side operation panel. 18. Audio level meters [M] (page 68) 19. Histogram indication [M][A] 20. Fader indication [M] (page 82) 21. Video level cautioning indication [M] If the video level is too high or too low, a caution is generated showing the appropriate ND filter number. Joystick Jog dial STATUS MONITOR VOL MENU SEL/SET CANCEL THUMBNAIL SEL/SET CANCEL B TC/U-BI T/DURA TION IRIS SDI LENS INFO OUT HDV BRT DISP HISTOG RAM ASSIGN MANU AUTO MACR O 1 ND FILTE R 2 1 2 3 ECT T SEL SLO ESS ACC B A CH-1 IO AUD EL LEV AUTO AL MANU IN EXT K IN LOC GEN TC IN FOCU S IO AUD ECT SEL IO AUD IN IN EXT MANU AUTO PUSH AF FRAM AUTO AL MANU FULL E CH-2 AUTO OTE REM TC OUT + OFF GAIN WHITE L M H ATW BAL B A PRST BARS/ CAM PM OPEN X3 W-E STAT US MEN U SELS ET CANC EL PICTU PROF RE ILE CAME RA OFF MEDIA 1 Press the joystick or the jog dial. If "Direct Menu" is set to "All" or "Part," the cursor is displayed on one of the items for which the Direct menu operation is permitted. Example: TLCS mode indication 25. Video Format indication [M] (page 49) 24 On-Screen Indications TLCS 7 On 1 1.

5 2 3 4 5 7 10 15 20 30 oo m MF ATW 4300K PPOFF ND1 ++F1.9 18dB SHT:1/2000 Overview 2 Tilt the joystick or rotate the jog dial to set the cursor to the item to be operated then press the joystick or the jog dial. The Direct menu of the selected items appears. Example: Direct menu for TLCS mode selection TLCS 74% TLCS TLCS 7 On 1 1.5 2 3 4 5 7 10 15 20 30 oo MF ATW 4300K PPOFF ND1 ++F1.9 18dB SHT:1/200 3 Tilt the joystick or rotate the jog dial to select the setting then press the joystick or the jog dial. The menu disappears, and the new setting is displayed. On-Screen Indications 25 Preparations Power Supply You can use a battery pack or AC power via an AC adaptor. If you connect an AC power source, it has a priority even if a battery pack is mounted.

Removing the battery pack Hold the BATTERY RELEASE button pressed, slide the battery pack upward to unlock, then pull it out. F Preparations Using a Battery Pack Mount a BP-U30 or BP-U60 Lithium-ion battery pack. One BP-U30 is supplied with this camcorder. Notes REMO TE TC OU T SDI OUT TS R A HO N ST IT IO N A HDV T C /U -B IT /D U R AT IO N B TC IN GENL OCK IN . Before use, charge the battery pack with the supplied BC-U1 Battery Charger. . A warm battery pack immediately after use may not be able to be fully recharged. DC IN MONITOR OUT S VIDEO T ONEN COMP T OU CH-2 OUT CH-1 IO AUD Mounting the battery pack Fully insert the battery pack then slide it downward to lock.



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Battery pack F CAMERA OFF MEDIA BATTERY RELEASE button BATTERY RELEASE Power switch: OFF Checking battery charge remaining To check during operation When recording or playback is in progress on the battery pack, an icon to show the current battery charge level and usage time remaining are displayed in the viewfinder screen. 120min STBY A: 25min B: 50min Z99 S&Q REC T HDV SDI OUT /U -B IT /D U R AT IO N T S R AH NO ST IT IO N T C B A TC IN GENL OCK IN REMO TE TC OU T DC IN MONITOR OUT S VIDEO T ONEN COMP T OU CH-2 OUT CH-1 IO AUD CAMERA OFF MEDIA Battery pack receptacle Icon Remaining 100% to 91% 90% to 71% 70% to 51% Power switch: OFF Note If a battery pack that cannot be used with this camcorder is mounted, an error message is appears in the viewfinder. Replace the battery pack with the BP-U30 or BP-U60, or connect a power to the DC IN connector after removing the battery pack. 50% to 31% 30% to 11% 10% to 0% The camcorder indicates the remaining usage time in minutes by calculating the available time 26 Power Supply with the battery pack if operation is continued at the current rate of power consumption. Note The operating time on a battery pack depends on the condition (new or old) of the battery pack and the ambient temperature.

To check in power-off status Information on the mounted battery pack (BATTERY INFO) is displayed in the viewfinder when you hold the DISPLAY/BATT INFO button pressed even if the camcorder is off. The BATTERY INFO display goes off after 5 seconds. DISPLAY/BATT INFO button To change the message levels The Low BATT level is set to 10% of full charge, and the BATT Empty level is set to 3% of full charge at the factory. These settings can be changed with "Battery Alarm" (page 126) of the OTHERS menu. Preparations Using AC Power (DC IN Power) You can connect an AC power source to this camcorder by using the supplied BC-U1 Battery Charger for BP-U30/U60 as an AC adaptor, as shown below: L OFF H PEAKING CONTRAST BRIGHT -BIT/ DUR ATIO N OFF ON STA ST RT OP / D C IN M O O NIT UO TR S V ID E O 1 HT BRIG T TRAS CON ING PEAK E IMAG ON ATT LAY/B DISP A ZEBR INFO OR MIRR OFF DC IN CH-1 AUDIO CH-2 OUT COMPON OUT ENT CH-1 TRANS SHOT ITION AUDIO A IN CH-2 LINE MIC DC IN MIC+4 8V LINE MIC MIC+4 8V MO NI OU TO TR S VI DE O 3 COMP ONENT OUT CH-1 AUDIO CH-2 OUT DC OU T CH ARG E 0% BA TTE BCU1 RY 80 100 CH ARG ER BC-U1 BATTERY I NFO 0% 50% 100% 1 2 Remaining Ti me : 20m i n Connect the DC power output cable of the BC-U1 to the DC IN connector of the camcorder. Connect the power cord supplied with the BC-U1 to the AC input connector of the BC-U1 then to an AC power source. Set the mode switch of the BC-U1 to the DC OUT position. If the battery charge remaining becomes low If the battery charge remaining decreases to a certain level during operation (Low BATT status), a low-battery message, flashing of the tally lamps, and a beep sound will warn you. If the remaining further decreases to a level at which operation cannot be continued (BATT Empty status), a battery-empty message appears. Temporarily set the power switch to OFF and connect a power source via the DC IN connector or replace the battery pack with one that is fully charged.

3 For details, refer to the Operating Instructions of the BC-U1. When recording or playback is in progress on power from the DC IN connector, the input voltage is displayed in the viewfinder. Power Supply A MIRROR IMAGE DISPLAY/BATT INFO ZEBRA TRA SHO NSIT T ION TC/U B Y ER E TT BA LEAS RE CH-1 LINE RE LE AS E RE REC VI EW EX PA FO ND CU ED S OF L F H TC/U-B B IT/DUR ATION Y TER E BAT EAS REL s 1 J FW D PR EV F j F RE V TH UM NA PL AY /PAU G SE /S ET L IL MO SE L/S VO L NIT OR CA NC EL R 2 ST ST ART/ OP RE LE AS E RE REC VI EW EX PA FO ND CU ED S 27 DC IN 12.0V STBY A: 25min B: 50min Z99 S&Q REC power without first setting the power switch to OFF may cause damage to the camcorder or SxS memory cards. Note The battery pack mounted on the camcorder is not charged even if you set the mode switch of the BC-U1 to the CHARGE position. To charge the battery pack, remove it from the camcorder and mount it on the BC-U1. NI VO TO TH LR UM NA IL SE L/S ET CA PL NC AY EL /PAU G SE PR /S F FW EV D 1 J ST OP MO R NE XT L RE V ST RE AR C T/S TO P F j s L HO LD 16:9 WID E SCR EEN H L OF F ft mm 40 25 1.9 30 10 2.8 15 4 15 5 10 5.6 10 3 5.

8 OFF ON 8 16 C Preparations Turning Power On This camcorder has Camera mode for recording and Media mode for playback. The mode is selected when you turn the power on. B TC/U-BI T/DURA TION IRIS SDI LENS INFO OUT HDV BRT DISP HISTOG RAM ASSIG N MANU AUTO MACR O 1 ND FILTE R 2 1 2 3 ECT T SEL SLO ESS ACC B A CH-1 IO AUD EL LEV AUTO AL MANU IN EXT K IN LOC GEN TC IN FOCU S IO AUD ECT SEL IO AUD IN IN EXT MANU AUTO PUSH AF FRAM AUTO AL MANU FULL E CH-2 AUTO OTE REM TC OUT + OFF GAIN WHITE L M H ATW BAL B A PRST BARS/ CAM PM OPEN X3 W-E STAT US MEN U SEL/S ET CANC EL PICTU PROF RE ILE CAME RA OFF MEDIA Power switch CAMERA OFF MEDIA To operate in Camera mode, turn the power on by setting the power switch to the CAMERA position. To operate in Media mode, turn the power on by setting the power switch to the MEDIA position. Turning Power Off Set the power switch to the OFF position.

Notes - This camcorder uses a little standby power even when the power switch is set to OFF. Remove the battery pack if the camcorder will not be used for a prolonged period. - When removing the battery pack or the DC IN power, be sure to set the switch to OFF in advance. Removing the battery pack and the DC IN 28 Power Supply Setting the Clock When you turn the camcorder on for the first time after purchasing or replacing the backup battery (page 144), the Initial Setting display appears in the viewfinder. Set the date and time of the built-in clock, using this display.

INITIAL SETTING Time Zone: UTC +09:00 TOKYO Date / Time: 2008/01/01 00:00:00 F i n i sh INITIAL SETTING Time Zone: UTC +09:00 TOKYO 2008/01/01 Date / Time: 2009/01/01 00:00:00 SET F i n i sh 2 Tilt the joystick or turn the jog dial to set the year then press the joystick or dial. The cursor moves to the month-setting column. Preparations 3 Set the month, day, hour, minute, and second in sequence in the same manner. When you press the joystick or the jog dial at "SET," the cursor moves back to "Date/Time." Time Zone The value shows the time difference from UTC (Coordinated Universal Time).



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Change the setting if needed. 4 Move the cursor to "Finish" then press the joystick or dial. Setting the time and date Use the joystick on the handle or the jog dial on the side operation panel for setting. The Initial Setting display disappears, and the clock setting is completed. The camcorder enters the operation mode (Camera mode or Media mode) you selected with the power switch.

Once after the Initial Setting display disappears, the time zone and date/time settings can be changed using "Time Zone" (page 124) and "Clock Set" (page 124) of the OTHERS menu. Notes Joystick Jog dial STATUS MONITOR VOL MENU SEL/SET CANCEL THUMBNAIL SEL/SET CANCEL 16:9 WID E SCREEN B TC/U-BI T/DURATION 25 1.9 IRIS 30 10 SDI LENS INFO OUT HDV BRT DISP HISTOG RAM ASSIG N 15 MANU 4 AUTO 10 MACR O 15 5 1 10 3 ND FILTE R 2 1 5.6 2 3 ECT T SEL SLO ESS ACC B A CH-1 IO AUD EL LEV AUTO AL MANU IN EXT K IN LOC GEN TC IN OFF ON FOCUS IO AUD ECT SEL IO AUD IN IN EXT MANU AUTO PUSH AF FRAM AUTO AL MANU FULL E CH-2 AUTO OTE REM TC OUT + OFF GAIN WHITE L M H ATW BAL B A PRST BARS/ CAM PM OPEN X3 W-E STAT US MEN U SEL/S ET CANC EL PICTU PROF RE ILE CAME RA OFF MEDIA · If the clock setting is cleared because of exhaustion of the backup battery while no operation power was being supplied (no battery pack and no DC IN connection), the Initial

Setting display will be displayed when you turn the camcorder on at the next opportunity. · While the Initial Setting display is shown, no other operation except turning the power off is permitted until you finish the setting for this display. NI VO TO TH LR UM NA IL SE L/S ET CA PL NC AY EL /PAU G SE PR /S F FW EV D I J ST OP MO R NE XT L RE V ST RE AR C T/S TO P f j s L HO LD ft mm 40 5.8 1 Tilt the joystick or turn the jog dial to set the cursor to "Date/Time" then press the joystick or dial. The cursor moves to the year-setting column. C 16 8 2.8 H L OF F Setting the Clock 29 Adjusting the Viewfinder You can adjust the angle and the display conditions of the viewfinder for best viewing in various shooting situations.

These adjustments of the viewfinder have no effect on pictures being recorded. BRIGHT control CONTRAST control PEAKING CONTRAST BRIGHT MIRROR IMAGE DISPLAY/BATT INFO OFF ON ZEBRA DC IN MO NI OU TO TR S VI DE O CH-1 AUDIO CH-2 OUT COMP ONENT OUT Adjusting the focus in the viewfinder The eyepiece focusing (diopter compensation) ring enables adjustment to match the eyesight of operator so that the operator can view the image clearly in the eyepiece. Eyepiece focusing ring CONTRAST: For adjusting the brightness BRIGHT: For adjusting the brightness When you view the knob from the front, clockwise rotation increases the level and counterclockwise rotation decreases it. Adjusting the color 16:9 WI DE SC REEN AF A 81 .2

Full MF STEADY SHOT TRAN SHO T SITIO N B TC/UBIT/D URAT ION ft mm 40 These adjustments can be made using the VF SET menu. Press the MENU button to set the camcorder to Menu mode. Select (VF SET menu) then "VF" from the menu, and adjust "Color." VF SET You can also attach a commercially available 52mm aperture diopter compensation lens. 5 9 IRIS Adjusting the contrast and brightness Use the control knobs on the back panel of the viewfinder. 00:00 VF Peaking Marker Zebra Display On/O ff B B B B Color Mode For details on menu operations, see "Basic Menu Operations" on page 111.

Switching between color and monochrome modes For the viewfinder display, color or monochrome display can be selected. Select "VF" from the VF SET menu then select "Mode." 30 Adjusting the Viewfinder A TRANS SHOT ITION TC/U-B B IT/DUR ATION Do not leave the camcorder with the eyepiece of the viewfinder facing the sun. Direct sunlight can enter through the eyepiece, be focused in the viewfinder, and cause fire. Y TER E BAT EAS REL Preparations

Caution CH-1 AUDIO IN OF L F H 1 s G /S SE F FW D ET J /PAU SE L/S PL AY PR EV j F RE V NA IL HT BRIG T TRAS CON ING PEAK E IMAG ON ATT LAY/B DISP A ZEBR INFO OR MIRR OFF TH UM L MO NIT OR VO L CA NC EL R CH-2 LINE MIC MIC+4 8V ST ST ART/ OP RE LE AS E RE REC VI EW EX PA FO ND CU ED S LINE MIC MIC+4 8V :0 : Color Select "B&W" if checking the subject and focusing are easier on the monochrome display. If you assign "VF Mode" to one of the assignable buttons (see page 72), you can switch between color and monochrome by pressing the button. Adjusting the angle You can adjust the angle of the viewfinder. Note Adjusting the position (distance from your eye) Loosening the fixing lever below the handle (rotating it toward the viewfinder) permits you to horizontally pull out the support bar and move the viewfinder forward or rearward with the support bar as the axis. If the fixing lever below the handle is loose, the position may vary when you adjust the angle. Be sure to tighten the lever in advance.

Preparations 1 Adjust the horizontal position. PEAKING CONTRAST BRIGHT CT LE SE INT T EX TO O AU NUAL DI MA AU IN O DI -1 AU LECT TO AL AU NU SE MA O DI LAU VE LE -2 CH MIRROR IMAGE OFF ON DISPLAY/BATT INFO ZEBRA AF Full MF STEADY SHOT SL OT INT T EX 81.2 LENS INFO BRT DISP HISTOGRAM ASSIGN ft mm IRIS 2.8 1.9 1 2 3 AC A CE SS B CH 40 ND FILTER W Fixing lever Tighten Loosen Fixing lever 2 Move the viewfinder forward or rearward for the best position. To reverse the image The viewfinder can be rotated as much as 180 degrees toward the direction facing the subject. To read the displayed menu and messages in this condition, set the MIRROR IMAGE switch to ON so that the textual information is converted to the readable direction. PEAKING CONTRAST BRIGHT MIRROR IMAGE switch INT T EX TO AU NUAL MA MIRROR IMAGE DISPLAY/BATT INFO OFF ON ZEBRA SL OT SE LE CT DIO AU IN AF 81.2 Full MF STEADY SHOT LENS INFO BRT DISP HISTOGRAM ASSIGN ft mm IRIS 2.8 1.

9 1 2 3 S CES B AC A -1 CH 40 ND FILTER DIO T AU LEC TO AU NUAL SE MA DIO L AU VE LE -2 CH INT T EX W EX T TRAS CON ING PEAK E IMAG ON ATT LAY/B DISP INFO OR MIRR OFF HT BRIG Fixing lever TRANS SHOT ITION B A ZEBR OF L F H DC IN MO NI OU TO TR Note S VI DE O When you move the viewfinder forward or rearward, the angle of the viewfinder varies simultaneously. Adjust the angle for your best position after tightening the fixing lever. CH-1 AUDIO CH-2 OUT COMP ONENT OUT When the camcorder is in Media mode, the picture is also inverted both vertically and horizontally.



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In Camera mode, the picture is Adjusting the Viewfinder A Tighten the fixing lever after the adjustments. TC/U-B IT/DURATION Y TER E BAT EAS REL s l J FWD PR EV F j F RE V TH UM NA PL AY /PAU G SE /S ET L IL MO SE L/S VO L NIT OR CA NC EL R CH-1 AUDIO IN CH-2 LINE MIC MIC+4 8V ST ST ART/ OP RE LE AS E RE REC VI EW EX PA FO ND CU ED S LINE MIC MIC+4 8V 31 inverted only vertically, while it is also inverted horizontally for Rec Review (page 71).

Although you can open it farther from the lock position, once return it to the closed position to lock it at the 120-degree position again. To detach The eyepiece can also be detached. Opening/detaching the eyepiece (to directly view the LCD screen) You can directly view the LCD screen inside the viewfinder by opening the eyepiece. Preparations 3 4 H LF F O PEAKING CON TRAST OFF MIRR OR IMAG E ON T E L/S E S BRIG HT IT OR T SE PA U G SE /S F F W DISPLAY/B ATT INFO ZEBRA 2 IT /D D W F F E SJ AU T X /P E Y LA /S N G PL TO F S j P s C V E TO E R T/S R R P L E C N A C P VO L CA ON L / J SE D IL NA PLA Y /N E X T M LD LCD screen H L OF F STEADY SHOT L R O I T N O M NC IL A N M U H T E L L O V V E R I S T A H O LD TH STO STA R RT EC /S TO P C T LO S E LE RE F j s PR EV TR SH AN O S I T T I O N I TC /U B -B U R AT T L TO UA AU AN M UM P V IO N HO S 16:9 WI 16:9 WI DE SC DE SCRE REEN EN C H -1 IO DC UE AL E S T A LENS INFO BRT DISP AM HISTOGR ASSIG N C C A A S E S B IO DL UE A EV -2 L H C 3 2 .8 1.

9 1 AF 81 .2 Full MF STEA SHOTDY A TRA SHO NSIT T ION B 1 To open Push the clip on the bottom to release and flip up the eyepiece. It locks at the 120-degree position. 1 2 3 4 Push the clip on the bottom to release. Flip up the eyepiece. Slide the knob on the top to the opposite side of the eyepiece. Detach the eyepiece by horizontally sliding it. PEAKING CON TRAST OFF MIRR OR IMAG E ON T E L/S E S BRIG HT DISPLAY/B ATT INFO ZEBRA 2 IT /D D W F F E SJ AU T X /P E Y LA /S N G PL TO F S j P s C V E TO E R T/S R R P L E C N A C P RO I T N O M IL A N M U H T L O V V E R I S T A H O LD H LF F O C T LO S E LE TR SH AN O S I T T I O N TC /U B -B U R AT T L TO UA AU AN M IO N S C H -1 IO DC UE AL E S T A LENS INFO BRT DISP AM HISTOGR ASSIG N C C A A S E S B IO DL UE A EV -2 L H C 3 2 STEADY SHOT 8 1.9 1 1 Normally use it in the locked position. 32 Adjusting the Viewfinder Adjusting the Lens The supplied VCL-614B2X and the optional XS8X4AS-XB8 (see page 34) specially designed for the PMW-EX3 are called "exclusive lenses" in this manual.

With the supplied or optional exclusive 1/2-inch EX Mount lens, the flange focal length can be adjusted automatically. Notes Caution Do not leave the camcorder with the lens facing the sun. Direct sunlight can enter through the lens, be focused in the camcorder, and cause fire. · If a subject of insufficient contrast is used, or if the camcorder or subject moves during the adjustment, adjustment cannot be made properly. Once the adjustment begins, do not touch the camcorder body or lens until it ends. · When the Shutter is in SLS mode, be sure to set the SLS setting to OFF before starting the adjustment. Preparations 1 2 3 Start the camcorder in Camera mode by setting the power switch to CAMERA. Set the IRIS switch to AUTO. Place a high-contrast subject, such as a flange focal length adjustment chart, about 3 m (10 ft.) away from the camcorder, and light it well enough to provide a sufficient video output level.

Adjusting the Flange Focal Length It is necessary to adjust the flange focal length (the distance from the lens flange to the plane of the image along the optical axis) if the focus does not match properly from telephoto to wide angle during zoom operations. Repeated adjustment is not necessary as long as the same lens is used. HT BRIG T TRAS CON ING PEAK E IMAG ON ATT LAY/B DISP A ZEBR INFO OR MIRR OFF OF L F H DC IN MO NI OU TO TR S VI DE O CH-1 AUDIO CH-2 OUT COMP ONENT OUT ZOOM switch ZOOM MANU SERVO AF IRIS 25 MANU AUTO 5.6 4 2.8 1.

9 40 Focus ring ft mm 81.2 30 10 15 5 15 10 3 10 OFF ON FOCUS C 16 8 5.8 Zoom ring 00:00 A TRANS SHOT ITION TC/U-B B IT/DURATION Y TER E BAT EAS REL s l J FWD PR EV F j F RE V TH UM NA PL AY /PAU G SE /S ET L IL MO SE L/S VO L NIT OR CA NC EL R CH-1 AUDIO IN CH-2 LINE MIC MIC+4 8V LINE MIC MIC+4 8V approx. 3 m ST ST ART/ OP RE LE AS E RE REC VI EW EX PA FO ND CU ED S 4 IRIS switch Set the ZOOM switch to SERVO (Power Zoom mode). Press the MENU button to set the camcorder to Menu mode, and select (the LENS menu) then "Auto FB ADJ" from the menu. LENS Auto FB ADJ File F lare Shad ing Execute Cancel 5 FULL MF STEADY SHOT MACRO MANU AUTO PUSH AF B B B Adjusting the Lens 33 6 Move the cursor to "Execute" then press the joystick or the jog dial. The adjustment begins. Removing the supplied lens To remove the supplied lens, proceed as follows: D W F F E SJ AU T X /P E Y LA /S N G PL TO F S j P s C V E TO E R T/S R R P During adjustment The in-progress message is displayed. L E C N A C L O V H O LD PEAKING CON TRAST OFF MIRR OR IMAG E ON I S T A H T E L/S E S P IL A N M U H T V E R When the adjustment finished The completion message is displayed. W DISPLAY/B ATT INFO ZEBRA AT A TR SH AN O S I T T I O N TC /U B -B IT /D U R IO N R O I T N O M LF F O BRIG HT 4 C 16 8 5.6 If the adjustment fails Check the conditions of the subject and lighting then perform the adjustment again. For details on menu operations, see "Basic Menu Operations" on page 111. 1.9 2.8 ft mm 30 10 15 5 7 2 10 3 When a lens other than the exclusive lenses is used, adjust the flange focal length manually.

Replacing the Lens In addition to the supplied VCL-614B2X standard zoom lens, a wide zoom lens exclusively for the PMW-EX3 is available as an option.

Optional exclusive lens Fujinon XS8X4AS-XB8: 1/2-inch EX Mount lens Using the supplied lens adaptor, a Sony 1/2-inch Bayonet Mount lens can be mounted. Note, however, that available functions, menu settings and performance may be restricted with non-exclusive lens. For non-exclusive but usable lenses, consult your Sony service representative. Note 1 2 3 Set the lens mount stopper switch to the RELEASE position.



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While holding the lens, turn the lens mount lever upward until it stops. Pull the lens forward to remove. Notes · When another lens is not immediately attached, attach the supplied lens mount cap and secure it by turning the lens mount lever downward. · When a non-exclusive lens is mounted for the first time, it may take about 20 seconds to start up the camcorder. Attaching an exclusive lens To attach the optional 1/2-inch EX Mount lens, proceed as follows:
The supplied lens once removed can also be mounted in the same manner.

Turn off the camcorder before replacing the lens. 34 Adjusting the Lens T STEADY SHOT Full MF AF/MF Preparations 3 IRIS MANU O AUT LENS INFO BRT DISP AM HISTOGR ASSIG N 1 ND FILTER 2 2 3 2 1 AUTO FULL FRAME BARS/CA M + GAIN OFF L M H WHITE ATW BAL B A PAST CANCEL ASSIGN 4 OFF SEL/SET SHUTTE R ON O MACR WHT STAT BAL US MEN U OFF ON FOCUS AUTO LOCK 1 RELEASE mount section and set the adaptor in place. ZEBRA AT IO N D W F F E SJ AU T X / P E Y LA / S N G PL TO S P s C V E TO E R T / S R R P H O LD PEAKING CON TRAST OFF MIRR OR IMAG E ON L E C N A C I S TA H L F F O T E L S E S BRIG HT DISPLAY/B ATT INFO 1 1.9 STEADY SHOT LENS INFO BRT DISP AM HISTOGR ASSIG N 3 2 1 2 Turn the lens mount lever of the camcorder downward. (Keep the lens mount lever of the lens adaptor in the upper position.)

M R O I T N O M I L A N M U H T L O V F V E R j P A T R S H A N O S I T T I O N N D FILTER TC / U B - B I T / D U R W 2.8 4 C 16 8 5.6 ft mm 30 10 15 5 7 2 10 3 D W F F E SJ AU T X / P E Y LA / S N G PL TO F S j P s C V E TO E R T / S R R P H O LD PEAKING CON TRAST OFF MIRR OR IMAG E ON R L E C N A C I S TA H T E L S E S P R O I T N O M RELEASE I L A N M U H T L O V V E R DISPLAY/B ATT INFO ZEBRA AT IO N L F F O A T R S H A N O S I T T I O N T C / U B - B I T / D U R 1 Align the alignment pin of the lens with the recess at the top of the mount section of the camcorder and set the lens in place. Turn the lens mount lever downward. Return the lens mount stopper switch to the LOCK position.

2 3 Attaching a Sony 1/2-inch Bayonet Mount lens Use the lens adaptor supplied with the camcorder. 1 Attach the lens adaptor to the camcorder. D W F F E SJ AU T X / P E Y LA / S N G PL TO S P s C V E TO E R T / S R R P H O LD PEAKING CON TRAST OFF MIRR OR IMAG E ON L E C N A C I S TA H j L F F O T E L S E S P I L A N M U H T L O V F V E R R O I T N O M A T R S H A N O S I T T I O N T C / U B - B I T / D U R AT IO N Lens adaptor (supplied) 1 Align the alignment pin of the lens adaptor with the recess at the top of the T Full MF AF/MF 2 1 AUTO FULL FRAME BARS/CA GAIN OFF L M H WHITE ATW IRIS

2 BAL B A PAST + CANCEL 3 Return the lens stopper switch to the LOCK position. Preparations MANU O AUT O MACR ASSIGN 4 OFF SEL/SET SHUTTE R ON WHT STAT BAL US MEN U OFF ON FOCUS 2 Attach the lens. AUTO LOCK 3 BRIG HT LENS INFO BRT DISP AM HISTOGR ASSIG N 3 2 1 ND FILTER 2 1 AUTO FULL FRAME BARS/CA M + GAIN OFF L M H 2 WHITE ATW B A PAST BAL CANCEL ASSIGN SEL/SET 4 OFF SHUTTE R ON WHT STAT BAL US MEN U 1 Sony 1/2-inch Bayonet Mount lens (optional) 1 Align the alignment pin of the lens with the recess of the adaptor and set the lens in place. 2 Turn the lens mount lever of the adaptor downward. To detach the lens, reverse the above procedure. BRIG HT DISPLAY/B ATT INFO ZEBRA Retrieving the Lens File AM HISTOGR 1 ASSIGN 4 OFF LENS INFO BRT DISP ASSIG N 3 2 1 ND FILTER 2 1 AUTO FULL FRAME BARS/CA M + GAIN OFF L M H 2 WHITE ATW B A PAST BAL CANCEL SEL/SET SHUTTE R ON WHT STAT BAL US MEN U By your storing the data (such as compensation data) specific to the lenses in files, required adjustments and compensation can be performed merely by retrieving the appropriate file when changing lenses. When using an exclusive lens LOCK 3 RELEASE The optimum compensation data for the two exclusive lenses are stored in the corresponding lens files at the factory to be automatically retrieved (with LENS menu "Auto Recall: On"). Adjusting the Lens 35 When using a non-exclusive lens You can use the lens file in which you stored the compensation data for the lens, using the LENS menu.

For the storage method, see "Lens File Operations" on page 143. Preparations Adjusting the Grip The grip rotates approx. 120 degrees to support a variety of shooting styles. Holding the RELEASE button pressed, slowly rotate the grip. AUDIO CH-1 MIC MIC+48V LINE MIC MIC+48V LINE When you mount a serial lens The corresponding file is automatically retrieved. When you mount a non-serial lens Retrieve the corresponding lens file, using the LENS menu. IN RELEA SE 1 2 Press the MENU button to set the camcorder to Menu mode and select (the LENS menu). Select "Recall" from "File" then the corresponding lens file from the list. LENS Auto FB ADJ File F lare Shad ing VCL-614B2X XS8X4AS- XB8 Lens ID B User_ F i l e 1 Recal l B User_ F i l e 2 St ore F i l e ID : User_ F i l e 3 No Of f s e t User_ F i l e 4 Auto Recal l : On T S R A H NO ST IT IO N T C / U B A EXPAN DE FOCU D S RELEA SE STA RT STO / P REC REVIE W LOCK ASE RELE Grip EXPANDED REC FOCUS REVIEW RELEASE B B B RELEASE button START/ 00:00 3 When the confirmation message is displayed, select "Execute." Click positions are provided at each 15 degrees.

Release the RELEASE button at the desired click position to lock the grip. For details on menu operations, see "Basic Menu Operations" on page 111. 36 Adjusting the Grip 3 Using the Cheek Pad When you operate the camcorder with it on your right shoulder, the cheek pad prevents the control parts on the side panel of the camcorder from directly hitting your face. Insert the cheek pad from the back of the camcorder and secure it with the supplied screws. Align the holes on the bottom of the mount frame of the cheek pad with those of the camcorder.

Preparations Mount frame of the cheek pad AUTO AL MANU INT EXT ECT T SEL SLO ESS B ACC A 1 CHIO AUD EL LEV IO AUD CT SELE IO AUD IN AUTO AL MANU INT EXT 2 CH- X3 PMW-E Attaching the cheek pad To attach the cheek pad, the shoulder pad, the shoulder pad and the cable clamp for optional accessories must be once detached. N OPE RA OFF MEDIA 1 Remove the shoulder pad.



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