

SOFTWARE INFORMATION

HDW-730/750 : AT V2.00 + SS V2.00 + FP V1.52

Product: **HDW-730, HDW-730S, HDW-750, HDW-750CE, HDW-750P, HDW-750PC**

Serial No: **All**

DESCRIPTION

AT V2.00, SS V2.00 and FP V1.52 software for HDW-730/750 series camcorders has been released.

Caution: This software is only compatible with EQ V1.50 and higher. To upgrade from EQ V1.31 or lower, contact your local Sony Service Centre. Do not downgrade the AT software below V1.40 because the camcorder may malfunction.

NEW FEATURES

- Menu item PREKNEE POINT has been added to the DCC ADJUST page of the MAINTENANCE menu so that the camcorder can now be configured to give more 'film-like' dynamic transfer characteristics. This feature extends the dynamic range so that more detail can be seen in highlight and lowlight areas of the picture.

| Item | Setting | Function |
|---------------|-----------|---|
| PREKNEE POINT | AUTO/ FIX | AUTO: Same as current DCC operation (default setting) FIX: DCC is permanently ON, which enables the dynamic range to be extended |

Note: A list of settings for configuring the camcorder to give more 'film-like' dynamic transfer characteristics is included in the APPENDIX of this document.

- Menu item HDSDI REMOTE I/F has been added to the FUNCTION 3 page of the MAINTENANCE menu. This feature can be used to make synchronised recordings on a portable VTR (HDW-S280 or HDW-250) that is connected to the camcorder via HD-SDI. A software upgrade to the portable VTR may be required.

| Item | Setting | Function |
|------------------|-----------------------|--|
| HDSDI REMOTE I/F | OFF/CHARA/G-TLY/R-TLY | OFF: Sync recording via HD-SDI is OFF (default setting) CHARA: Sync recording via HD-SDI is ON (REC2 blinks on VF DISP) G-TLY: Sync recording via HD-SDI is ON (Green tally lights up) [†] R-TLY: Sync recording via HD-SDI is ON (REC tally lights up) [‡] |

[†]Caution: When G-TLY is selected, the green tally is used for SDI REMOTE I/F only and is no longer lit when LOOP REC or INTERVAL REC is ON.

[‡]Caution: When R-TLY is selected, the REC tally is lit as soon as the REC command is sent to the VTR, even when there is no cassette in the VTR.

IMPROVEMENTS

AT V2.00 + SS V2.00

- VF picture quality is now improved when RET is ON.
- High-level RPN is now improved when ABB is performed.
- Model code HDW-730S can now be distinguished from HDW-730 during remote communication (e.g. when the camcorder is used with an RM, MSU or RCP).
- A confirmation message is now displayed when USER/ALL FILE data is saved to a Memory Stick which already contains data created by an HD camera that is not in the HDW-730/750 series.
- The VCO frequency for the HDW-730/730S series can now be adjusted separately for 59.94i and 50i modes from the DCP ADJUST page of the SERVICE menu.

6. Previously when HD-SDI was turned from OFF to ON whilst EMPHASIS was ON, EMPHASIS was displayed incorrectly in the menu until the power was turned OFF and ON. This condition has been corrected.

AT V1.82 + SS V1.82

The unit now operates correctly when REC TIME of INTERVAL REC is set to 41MIN or more in 50i mode.

AT V1.80 + SS V1.82

Read/Write access is now possible when one of the two boot blocks in the Memory Stick has been corrupted.

FP V1.52

The CUE signal is no longer muted during SEARCH/FF/REW mode with Loop REC set to ON.

Note: Modification to the FP-121 board may be required; refer to MODIFICATION PROCEDURE for details.

MODIFICATION PROCEDURE

The following modification applies HDW-750CE (serial numbers 40001-40036), which are fitted with an FP-121 board (suffix -15 or lower).

1. Remove transistor Q522 from the FP-121 board (side B, location C2).
2. Insert an blank tape.
3. Set Loop REC to ON and record CUE sound for at least one minute.
4. Confirm that CUE sound is audible during Search FWD and Search REW modes.
5. Select MAINTENANCE menu page 06 > VTR MODE-1.
6. Set AUDIO OUT (F/R) to CUE.
7. Confirm that CUE sound is audible during FF and REW modes.
8. Reset AUDIO OUT (F/R) to its original setting (if required).

PROCEDURE FOR CREATING MEMORY STICK

Caution: The Memory Stick must NOT be formatted in a PC.

1. Insert the Memory Stick into the camcorder.
2. Select FILE menu page 09 > FORMAT.
Caution: All data will be erased.
3. Remove the Memory Stick from the camcorder.
4. Insert the Memory Stick into a PC.
5. Copy the *.ROM data files from the PC to the \MSSONY\PRO\CAMERA\HDW750\ folder in the Memory Stick.

INSTALLATION PROCEDURE

Caution: Do not remove the Memory Stick or turn off the power whilst the software is being upgraded.

1. Turn the power on and set the MENU switch to ON.
2. Refer to Section 1-24-1 'Confirming the ROM Version' of the Maintenance Manual, Volume 1, 1st Edition, Revised 3 (part number 9-968-591-04). Confirm that the current version of EQ software is V1.50 or higher. To upgrade from EQ V1.31 or lower, contact your local Sony Service Centre.
3. Insert the Memory Stick.
4. Perform ALL FILE SAVE to save the current settings to a Memory Stick, as described in Section 5-4 'Operating the ALL File' of the Maintenance Manual.

Note: The Memory Stick containing the software can also be used to store these settings.

5. Open the ROM VERSION page of the DIAGNOSIS menu.
6. Press the rotary encoder for a few seconds with the cursor on the left indicating '?' until the unit enters version upgrade mode.
Caution: Do not remove the Memory Stick while 'MEMORY STICK ACCESS' is displayed.
7. Upgrade the ROM data as follows:
Note: The FP, SS and AT software should be upgraded in that order.
 - a) Select a ROM file.
 - b) Press the rotary encoder and wait until confirmation message 'VERSION UP OK?' is displayed.
 - c) Select YES and then press the rotary encoder to start upgrading the software.
8. Refer to Section 5-4 'Operating the ALL File' of the Maintenance Manual. Perform ALL FILE LOAD to restore the settings from the Memory Stick, or use the 'Film-Like' ALL file as described in the APPENDIX.

CONFIRMATION PROCEDURE

Confirm the following functions operate correctly:

Table 1: Confirmation after Software Upgrade

| Item | How to Check |
|-------------------------------|---|
| TOP MENU/DIAGNOSIS/DEV STATUS | Confirm VF display = OK |
| AWB/ABB operation | Confirm VF display = OK after AWB/ABB |
| GAIN SW switching operation | Check VF display after switching GAIN SW |
| Shutter operation | Check VF display when shutter speed is changed |
| Record and Playback | Make five short consecutive recordings. Check the edit transition between each recording is smooth during playback. |



APPENDIX : 'FILM-LIKE' CONFIGURATION SETTINGS

Table 2 lists the configuration settings that are required to give more 'film-like' dynamic transfer characteristics.

Table 2: 'Film-Like' Configuration Settings

| Description | Setting | Description | Setting |
|------------------|----------|------------------|---------|
| PREKNEE POINT | FIX | DETAIL BLK LIMIT | -142 |
| GAIN | -3dB | DETAIL V-BLK LMT | 34 |
| MASTER BLACK | -1 | MATRIX | ON |
| MASTER GAMMA | 0 | MATRIX USER | ON |
| GAMMA SELECT | STANDARD | MATRIX PRESET | OFF |
| GAMMA SEL STD | 2 | R-G | -53 |
| BLACK GAMMA | ON | R-B | 0 |
| BLK GAMMA RANGE | HIGH | G-R | -5 |
| MASTER BLK GAMMA | 22 | G-B | -6 |
| KNEE POINT | 50% | B-R | -1 |
| KNEE SLOPE | -136 | B-G | -9 |
| KNEE SATURATION | ON | Y BLACK GAMMA | ON |
| KNEE SAT LEVEL | 70 | Y BLK GAM LEVEL | 31 |
| WHITE CLP LEVEL | 109.5% | Y BLK GAM RANGE | H.MID |
| DETAIL WHT LIMIT | -175 | | |

These settings can be set manually, or uploaded from Memory Stick using the following procedure:

1. Copy the 'v2FilmGamma.ALL' file from the PC to the \MSSONY\PRO\CAMERA\HD_CAM\ folder in the Memory Stick.
-  2. Rename the 'v2FilmGamma.ALL' file on the memory stick to '000000nn.ALL', where 'nn' is a number between 06 and 99 (e.g. '00000006.ALL'). 
3. Perform ALL FILE LOAD to upload the settings from the Memory Stick, as described in Section 5-4 'Operating the ALL File' of the Maintenance Manual.

SOFTWARE SET CONTENTS

- This document
- CD-ROM (HDW-730/750, AT V2.00 + SS V2.00 + FP V1.52 + 'Film-Like' ALL file)
- Your licence agreement for the software