

SOFTWARE INFORMATION

HDW-730/750 : AT V2.05 + SS V2.05 + FP V1.58

Product: **HDW-730, HDW-730S, HDW-750, HDW-750CE, HDW-750P, HDW-750PC**
Serial No: **All**

DESCRIPTION

AT V2.05, SS V2.05 and FP V1.58 software for HDW-730/750 series camcorders has been released. This software supersedes AT V2.04, SS V2.04 and FP V1.57.

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.

Note: If the Function Cam Gear (part number X-3605-990-1) is replaced with a new type (part number X-3704-882-2), the SS software must be upgraded to V2.02 or higher. After fitting the new type of Function Cam Gear and upgrading the SS software, execute FUNCTION CAM CHECK as described in Section 11-3-1 'Servo System Self-Diagnosis Mode (C0 : SERVO CHECK)' of Maintenance Manual, Volume 1, 1st Edition, Revision 4 (part number 9-968-591-05).

IMPROVEMENTS

AT V2.05

Previously in AT V2.03, a faint double image was occasionally displayed on sharp edges. This condition was corrected in AT V2.04, but the software occasionally caused picture distortion at start-up. Both conditions have now been corrected.

SS V2.05

1. Previously in INTERVAL REC mode, the end of the recording was sometimes truncated by approximately 97 frames. This condition has been corrected.
2. Reliability of back-space editing after record review has been improved.

FP V1.58

1. Previously, the LCD display occasionally blinked rapidly for about a second during start-up. This condition has been corrected.
2. Previously, the Date/Time data stored in the internal clock was occasionally reset at start-up (error E-x95), or after the SS software had been upgraded (error E-C95). This condition has been corrected.

MODIFICATION PROCEDURE

The following modification applies to the 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 a 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

1. Insert the memory stick into the camcorder.
2. Select FILE menu page 09 > FORMAT. This will create the correct folder structure.
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.

Note: When the SS software is upgraded from a version below V2.01 to V2.02 or higher, error E-x70 (servo EEPROM communication abnormality) may be detected the first time the POWER is switched ON after installing the SS software. If E-x70 is detected, turn the POWER OFF and ON.

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 4 (part number 9-968-591-05). 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 V2.05 + SS V2.05 + FP V1.58 + 'Film-Like' ALL file)
- Your licence agreement for the software