

## Major Functions Updated in V5.00

### Precautions when upgrading

When upgrading to V5.00, follow the steps described in the upgrade guide (4-575-113-14(1)).

### Copying clips to external storage media

Clips recorded on SxS memory cards can be copied to storage media or USB media connected to the external device connector.

### Transferring parts of original files recorded on the camcorder

Using "Content Browser Mobile" application version 2.2 or later, you can specify In/Out points in original files recorded by the camcorder to cut out and transfer the cutout parts.

### Added proxy recording formats

HD/SD Auto has been added to the configurable proxy recording formats.

### Added streaming formats

0.3 Mbps and 0.2 Mbps low bit rate options can be selected.

### Added User menu items

Some items in the File menu can be added to the User menu.

## Major Functions Updated in V4.00

### Improved startup performance and operation response

The following startup performance and operation response items have been improved.

- The time from startup until key control is accepted has been shortened.
- The time from startup until an image is output on the viewfinder/LCD monitor has been shortened.
- The time taken from turning the power switch OFF and completely shutting down has been shortened.
- The response in thumbnail mode has been improved.
- The response for continuous recording operation has been improved.

### UDF file system support

The UDF file system is supported for MPEG HD, IMX, and DVCAM format recording, and compatibility with conventional devices has been improved.

### XAVC Intra 1080 59.94P/50P format recording support

XAVC-I 1080P is selectable when the system frequency is 59.94 or 50.

### 1080 59.94P/50P external input signal recording support

1080 59.94P/50P (Level A/B) signal input on the SDI IN connector can be recorded.

### External input signal return display function

An HD SDI signal input on the SDI IN connector can be displayed as a return signal on the viewfinder screen/LCD monitor.

### Interval Rec support format added

Interval Rec is supported when XAVC-L50/30/25 1080i is selected.

### Proxy data recording function improvements

The following function improvements have been made.

- You can start and stop proxy recording independently by assigning the Proxy Rec Start/Stop function to an assignable switch.
- Proxy data recording to SDXC cards is supported.
- Proxy data recording in Network Client Mode is supported.

### Auto Upload function

Automatic upload of proxy data is supported in response to assignable switch or menu operation.

### Function expansion when connected with DWR-S02D Digital Wireless Receiver

RF power level setting and power saving are configurable for broadcasting transmitter.

### Wired LAN detailed settings

Detailed settings are configurable when connected to a network using a USB-RJ45 adaptor (option) and LAN cable.

### User Menu Lock function

A lock function for the User menu has been added.

### Paint function improvements

The following paint function improvements have been made.

- DCC performance (DCC Delay Time) with default setting modified to match conventional devices.
- Low Key Saturation correction effect modified to match conventional devices.

### Note

Reconfiguration is required if already using a modified setting.

### Counter/Duration indicator default setting modified

Default setting changed to Counter to match conventional devices.

### G-series and M-series XQD memory card support

Added G-series (QD-G32E, QD-G64E, QD-G128E) and M-series (QD-M32A, QD-M64A, QD-M128A) to the XQD memory cards supported by the camcorder.

### Note

The optional XQD ExpressCard Adaptor (QDA-EX1) is required to use XQD memory cards.

## Major Functions Updated in V3.00

### Interval Rec function support

The Interval Rec function for recording intermittently is now supported (when XAVC-I, XAVC-L, or MPEG HD422 format is selected, excluding XAVC-L50/30/25 1080i).

### Seamless, continuous playback

Seamless, continuous playback is supported for clips with identical recording format (excluding SStP, ProRes, and DNxHD® formats).

## Clip copy function

You can now copy a specific clip or all clips to another SxS memory card.

## Proxy data recording function improvements

The following function improvements have been made.

- Added 1280×720 (6 Mbps) to the proxy recording formats
- Simultaneous recording of still image of the first frame
- Recording of location information when GPS function is enabled
- “Proxy Rec” is displayed on the viewfinder screen during proxy recording
- Displays warnings for the SD card remaining capacity

## Network support

Support for CBK-WA02 Wireless LAN Adaptor (option) and CBK-NA1 Network Adaptor (option) has been added.

\* An attachment bracket (Part No. A-2092-367-A) is required for attaching options. For details, contact your Sony dealer or a Sony service representative.

## File transfer

You can transfer proxy files recorded on SD cards and original files recorded on SxS memory cards to a server on the Internet over a 3G/4G/LTE network, in addition to transfer via an access point using Wi-Fi or LAN cable connection. Partial transfer of proxy files is also supported using “Content Browser Mobile” application version 2.0 or later.

## Streaming transmission

High-quality streaming using Sony’s QoS controls is supported by enabling network client mode and connecting and using a Sony PWS-100RX1 Network RX Station (option) as a Connection Control Manager.

## Saving and loading ALL files

Reference files have been added to the ALL file load and save options.

## Viewfinder function improvement

The VF Details settings for when an HDVF is connected have been revised, and operability improved to match existing devices. The brightness level controls of text characters and markers displayed on the viewfinder screen have 5-level settings.

\* The brightness level setting for menu, status, and thumbnail display is also applied to the outputs on the LCD monitor, VIDEO OUT connector, and SDI OUT1/2 connectors.

## Remaining battery capacity indicator

The Display On/Off > Battery Remain settings in the Operation menu have been changed to Audio, Voltage, and Off. When Voltage is selected, this displays the input voltage, regardless of the battery type.

## UTILITY SD card icon indicator

An SD Card (Utility) option has been added to the Display On/Off item in the Operation menu, allowing you to turn the UTILITY SD card icon indicator on/off.

## Recording status indicator improvements

The following function improvements have been made.

- When the remaining recording time on the recording SxS memory card falls below 60 seconds, instead of a warning message display, the remaining capacity indicator for the corresponding media slot flashes on the viewfinder screen to indicate that the camcorder is about to switch SxS memory cards automatically.
- The status indicators during simultaneous recording (Simul Rec) have been changed to “●Sml Rec” and “Sml Stby,” and the remaining recording capacity warning is now displayed separately for slot A and slot B.

## Output settings when the Picture Cache function is enabled

Enabling the Picture Cache function when 1080/59.94P or 50P in XAVC-L format is selected prevents switching between SDI output Level-A and other output formats. Also, when Level-A is selected, there are cases where On/Off switching of the SDI Outx (x = 1 or 2) Output item may not be available. To change settings, first disable the Picture Cache function and then change the settings.

## Major Functions Updated in V2.04

### Improved auto iris operation

The auto iris operation (when using optical extender) for some lenses has been improved.

### Corrected errors in 3G-SDI output timecode

An error in updating the timecode, when using an input timecode generated by some recorders, caused by an error in the embedded VITC control has been corrected.

### Modified white balance memory operation

When the electrical CC filter switch function is assigned to an assignable switch and the Filter White Memory setting is enabled, the white balance settings can now be stored independently for each electrical CC filter setting.

### Changed the settings retention of assignable switches/buttons

The internal retention operation of settings when the ASSIGN. 1/3 switches, ASSIGNABLE 4/5 switches, and COLOR TEMP. button are switched has been changed so that settings are reflected immediately (within two seconds), instead of when the POWER switch is turned off.

## Output settings when the Picture Cache function is enabled

The following output settings operations are not available when the Picture Cache function is enabled.

- Changing [Output Format]
- Switching [SDI Out Output] on/off
- Switching [HDMI Out Output] on/off

To change settings, first disable the Picture Cache function and then change the settings.

## **Major Functions Updated in V2.03**

### **Apple ProRes and Avid DNxHD®**

Recording and playback are now supported for Apple ProRes 422 (HQ), Apple ProRes 422, Avid DNxHD220x, and Avid DNxHD 145 using the PXWK-501 and PXWK-502 codec options.

### **MPEG IMX**

Recording and playback are now supported for MPEG IMX 50Mbps.

### **Digital extender function**

A maximum 4-times digital extender function is now supported. This extends the zoom range electrically to prevent the drop in sensitivity (F-drop) that occurs in a conventional lens extender lens.

### **Picture cache recording**

The camcorder always maintains a cache of video and audio data for a set interval (maximum of 15 seconds) in internal storage memory when shooting, allowing you to capture several seconds of footage before actually starting to record.

### **External SD signal input recording function**

Recording of SD signals from the SDI IN connector is now supported.

### **Counter display**

Counter values can be now displayed as recording/playback elapsed times in the time data display section of the LCD monitor. The displayed values can also be reset.

### **COLOR TEMP. (color temperature) button**

The color temperature when shooting can now be changed directly by a button operation.

### **Slot Select function assignment added to the assignable switch/buttons**

The Slot Select function can now be assigned to the ASSIGN. 1/3 switches, ASSIGNABLE 4/5 switches, and COLOR TEMP. button.

### **Saving and loading of user files**

User files allow you to save and load customized User menu items and configuration data. This allows you to set up the User menu in a customized state.

### **Saving of reference files**

Reference files allow you to save the values of scene file standard settings (when File ID is Standard).

### **Saving and recovery of preset values**

When Store All Preset is executed, the current settings are saved as preset values. By executing Store All Preset, preset values can be recovered later, in response to the All Preset or dedicated menu commands, after settings have been changed or after scene files have been loaded.

### **Improved menu/status operation response**

The menu display, cursor movement, transition between menu hierarchies, status screen displays, and page turning response have all been improved.

### **Improved continuous timecode accuracy when power is turned off**

The continuous timecode accuracy when power is turned off has been improved.

### **Improved Auto Black Shading correction accuracy**

The correction algorithm of Maintenance >Auto Shading >Auto Black Shading in the setup menu has been improved, giving flatter correction.

### **Improved convergence accuracy of automatic black balance (ABB)**

The ABB control algorithm has been revised for improved level differences between R/G/B signals.

### **XAVC-L25 format bit rate control**

Errors in XAVC-Long 25 Mbps format bit rate control have been corrected to provide the appropriate bit rate value.

### **Recommended media**

Messages indicating the use of non-recommended media, due to the type of media used, are no longer displayed. For details about recommended media, contact your Sony sales representative.