

## Detail

### 1. Addition of FBC function

Most MOS (CMOS) sensors uses a Rolling Shutter (or Focal-plane shutter) which sequentially exposes one line at a time. Due to this, the exposure timing and the read timing of each line will be separated by a slight delay. For this reason, if a flash or similar short period of light is set off the phenomenon of half bright, half dark frames, called "Flash Band", will occur.

The FBC (Flash Band Compensation) function has been added.

For the details, refer to page 2.

### 2. Noise reduced in 1080/24P, 25P, 30P modes

When the camera is set to the 1080/24P, 25P or 30P mode, noise may slightly stand out caused by the image sensor drive. The picture quality has been improved with the revision of signal processing circuit and optimizing the parameter settings.

\* Supported modes differ by model

### 3. Modification of scene file F3 setting

Scene file F3 (SCENE SPARK) setting is suitable for shooting with a greater range of resolution, coloring, and contrast. By changing internal color matrix and color gain parameter, the feel of S/N is improved without sacrificing resolution.

The new parameters make it possible to have less noise in the F3 setting.

### 4. Addition of DRS (Dynamic Range Stretcher) to 1080/50i, 60i

The DRS function is now available in 1080/60i mode with 1/15 or 1/30 shutter speed.

The DRS function is now available in 1080/50i mode with 1/12.5 or 1/25 shutter speed.

\* Supported modes differ by model

### 5. Improvement of display flashing momentarily


Picture may be distorted when shutter is switched to 1/15 or 1/30 in 1080/60i mode.


Picture may be distorted when shutter is switched to 1/12.5 or 1/25 in 1080/50i mode.

\* Supported modes differ by model

This problem has been solved.

### 6. Warning information display setting

"No P2 card inserted" warning  display ON/OFF setting is added.

 blinks when the card is write protected same as before.

MAIN MANU → 7.DISPLAY SETUP → CARD/BATT

MENU		Before update	After update
CARD/BATT	ON	• Display the P2 card capacity and battery charge.	• Display the P2 card capacity and battery charge. • Blinks the P2 mark with not inserted P2 card
	OFF	• Not display the P2 card capacity and battery charge.	• Not display the P2 card capacity and battery charge. • Not display the P2 mark with not inserted P2 card

### 7. Problem with P2 card (E-series)

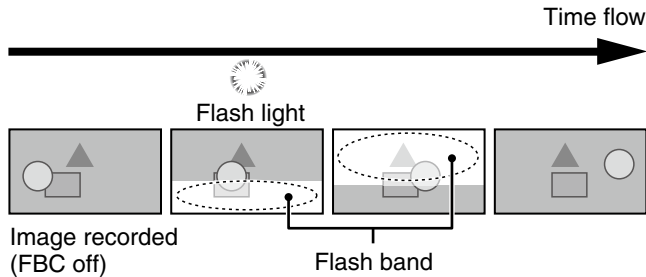
AG-HPX300 series displays "REC WARNING" on the screen and stops recording when switching from one P2 card to another during continuous recording under the following conditions.

Condition :P2 card (E-series) AJ-P2E016XG,AJ-P2E032XG

1. Loop recording, Interval recording or one-shot recording in DV/DVCPRO format (480/60i).
2. 12P or 15P-VFR mode in 720P Native format

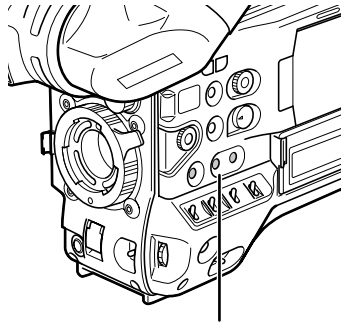
# FBC (Flash Band Compensation) Function

This camera-recorder comes with a function to compensate for and minimize light band (flash band) interference that occurs with the MOS imager when shooting in an environment where flash photography is taking place.



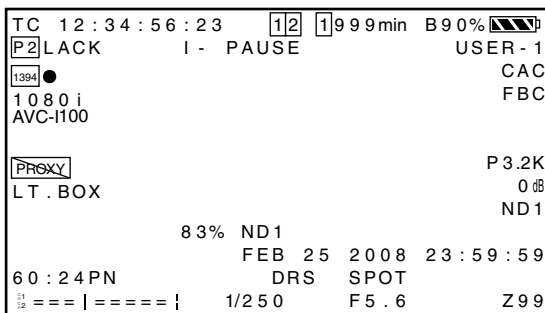
## Setting FBC function

Assign the FBC function to a USER button. Press the USER button to which the FBC function has been assigned to turn it on and automatically detect and compensate for flash light from still cameras. For details, refer to [Assigning functions to USER buttons] (page 53).



USER MAIN, USER1 and USER2 buttons

The status display indicates "FBC" when the FBC function is on. \*1



\*1 Not displayed when the menu option OTHER DISPLAY in the DISPLAY SETUP screen is set to OFF.

### NOTE

The following phenomena that may occur in video that includes flash light is due to FBC compensation and not indicative of a malfunction.

- Moving subjects may appear to be stationary for an instant.
- Resolution decreases in video exposed to flash light.
- Horizontal lines appear in video footage exposed to flash light.

### Using FBC

FBC goes on when the brightness of the lower half of the image differs markedly from the previous half, which could be caused by light from a camera flash or other strong light source. Since FBC may be incorrectly activated in certain shooting environments, for example, in zooming that includes a bright window, be sure to use the function only for shooting footage exposed to flash light.

In some shooting environments adequate FBC effect may not be obtained even when a flash goes off.

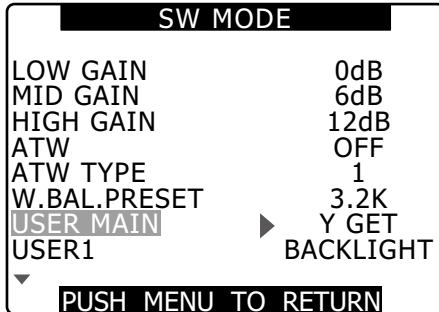
### FBC requirements

- The FBC function is available in the 1080/60i, 720/60P (VFR OFF) and 480/60i modes when the shutter off.
- Switching to an operating mode other than 1080/60i, 720/60P (VFR OFF) and 480/60i turns FBC off if on. To turn on FBC after returning to 1080/60i, 720/60P (VFR OFF) and 480/60i, press the USER button to which the function is assigned.
- Turning the shutter on when the FBC function is engaged temporarily turns it off. The FBC function goes back on when the shutter is later turned off.
- Turning the power off disengages the FBC function.

# Assigning functions to USER buttons

The USER MAIN, USER1, and USER2 buttons can be assigned user-selected functions.

Use the menu options USER MAIN, USER1, and USER2 to assign functions to respective button. Select these items from the setting menu SW MODE screen.



## Selectable Functions

- **REC REVIEW:**  
Assigns REC REVIEW.
- **SPOTLIGHT:**  
Assigns auto iris control on/off for spotlight.
- **BACKLIGHT:**  
Assigns auto iris control on/off for backlight compensation.
- **ATW:**  
Turns the ATW function on or off.
- **ATW LOCK:**  
Pressing this lock during ATW operation locks the white balance. Press again to start the ATW function again.
- **GAIN:24 dB:**  
Assigns a function that raises gain by 24 dB.
- **Y GET:**  
Assigns a function that displays the brightness level at the center of the image.
- **DRS:**  
Assigns a function that stretches the dynamic range. A function that magnifies the dynamic range by compressing the video level in high-brightness areas.
- **TEXT MEMO:**  
Assigns text memory recording.
- **SLOT SEL:**  
Assigns P2 card slot selection.
- **SHOT MARK:**  
Assigns the shot marker function.
- **MAG A. LVL:**  
Assigns a function that magnifies the audio level meter.
- **PRE REC:**  
Assigns a function that turns the PRE REC function on and off.

- **PC MODE:**

Assigns a function that switches the USB device mode or the USB host mode on and off. Switching the USB device mode and USB host mode on and off is set by the menu option PC MODE SELECT in the SYSTEM SETUP screen.

- **WFM:**

Assigns a function that switches WAVE FORM display. The WAVE FORM display is selected using the menu option WFM (page 128) in the SW MODE screen.

- **FBC:**

Turns the FBC function on or off.

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### ◆ NOTE

The default settings are listed below.

- **USER MAIN:** Y GET
- **USER1:** BACKLIGHT
- **USER2:** TEXT MEMO