Panasonic Broadcast

AJ-HD1700
Menu Information

No./Item	Description of setting
00 **WFM SEL**	**This enables one of a number of different signals to be output from the VIDEO OUT 2 output connector.** **0000 CTL:** The CTL signal is output. **0001 TC:** The time code signal is output. **0002 VIDEO:** The video output signal is output. **0003 RF_L:** The PB L RF signal is output. **0004 RF_R:** The PB R RF signal is output. **0005 ENV_L:** The PB L ENV signal is output. **0006 ENV_R:** The PB L ENV signal is output. **<Notes>** • The setting can be changed at any time without being affected by the system menu item No.30 (MENU LOCK) setting. • The output signals during normal playback virtually maintain the levels given below. CTL: 0.1 to.3Vp-p TC: 0.6Vp-p VIDEO: 1.0Vp-p
05 **ENCODER SEL**	**For setting whether to perform the various adjustments for the video output signals using this VTR or using an external encoder remote controller.** **0000 REMOTE:** The various adjustments for the video output signals are performed by an external encoder remote controller. **0001 LOCAL:** The various adjustments for the video output signals are performed using this VTR. **0002 BOTH:** The various adjustments for the video output signals are performed using both this VTR and an external encoder remote controller.
06 **V LEVEL CTRL**	**For selecting what is to be controlled when the video output level is to be adjusted by an external encoder remote controller.** **0000 HD:** The HD video output level can be adjusted. **0001 SD:** The SD video output level can be adjusted. **0002 BOTH:** Both the HD and SD video output levels can be adjusted.

The underlining (__) denotes the factory setting mode.

Video output signal adjustments

The control matrix for the adjustments is shown in the table below.

When "CMPNT" has been selected as the setup menu item No.650 (STYLE) setting

Setting		Adjustment item	
05: ENCODER SEL	06: V LEVEL CTRL	653: Y LVL (HD) 654: Pb LVL (HD) 655: Pr LVL (HD) 656: BK LVL (HD)	658: Y LVL (SD) 659: Pb LVL (SD) 660: Pr LVL (SD) 661: BK LVL (SD)
REMOTE	HD	External encoder remote controller	No adjustments possible
	SD	No adjustments possible	External encoder remote controller
	BOTH	External encoder remote controller	External encoder remote controller
LOCAL	HD	AJ-HD1700	AJ-HD1700
	SD		
	BOTH		
BOTH	HD	External encoder remote controller/AJ-HD1700	AJ-HD1700
	SD	AJ-HD1700	External encoder remote controller/AJ-HD1700
	BOTH	External encoder remote controller/AJ-HD1700	External encoder remote controller/AJ-HD1700

External encoder remote controller: Only adjustments of the external encoder remote controller are performed.
AJ-HD1700: Only adjustments of the setup menu items are performed.
External encoder remote controller/AJ-HD1700: Adjustments can be performed from both the external encoder remote controller and setup menus.
<Note>
Use the AJ-ER50, an optional accessory, as the external encoder remote controller. However, its VIDEO PHASE and SYNC PHASE controls will not work.

When "CMPST" has been selected as the setup menu item No.650 (STYLE) setting

Setting		Adjustment item
05: ENCODER SEL	06: V LEVEL CTRL	662: V LEVEL 663: C LEVEL 664: HUE (or C PHASE) 665: SETUP LVL (or BK LVL)
REMOTE	HD	External encoder remote controller
	SD	
	BOTH	
LOCAL	HD	AJ-HD1700
	SD	
	BOTH	
BOTH	HD	External encoder remote controller/AJ-HD1700
	SD	
	BOTH	

External encoder remote controller: Only adjustments of the external encoder remote controller are performed.
AJ-HD1700: Only adjustments of the setup menu items are performed.
External encoder remote controller/AJ-HD1700: Adjustments can be performed from both the external encoder remote controller and setup menus.
<Note>
Use the MT-200 (manufactured by Musashi and recommended by Panasonic) as the external encoder remote controller. However, its VIDEO PHASE, SYNC PHASE and SC PHASE controls will not work.

No./Item	Description of setting
12 **SYS H (HD)*UP**	**For adjusting the system phase of the HD SDI output.** When the [SHIFT] button is pressed, the display transfers to the submenu screen; press the [SHIFT] button again to return the display from the submenu screen.
Submenu screen	
00 **COARSE**	**For adjusting the system phase of the HD SDI output in 1H steps.** −: To advance the phase. +: To delay the phase. 0000 −5H : : 0005 0H : : 0010 5H **<Note>** This setting remains unchanged even when the factory setting operation is performed.
01 **FINE**	**For adjusting the HD SDI output system phase in 13.5ns steps.** −: To advance the phase. +: To delay the phase. <59/60Hz> 0000 −1100 / : : / 1100 0 / : : / 2200 1100 <23/24Hz> 0000 −1375 / : : / 1375 0 / : : / 2700 1375 <50Hz, 25Hz (HD,SD)> 0000 −1320 / : : / 1320 0 / : : / 2640 1320 **<Note>** This setting remains unchanged even when the factory setting operation is performed.
14 **SYS SC (SD)*DW**	**For adjusting the system phase over a total variable range of more than ±180°.** −: To advance the phase. +: To delay the phase. <59/60Hz, 23/24Hz> 0000 −108 / : : / 0108 0 / : : / 0216 108 <50Hz, 25Hz (HD, SD) 0000 −115 / : : / 0115 0 / : : / 0230 115 **<Note>** This setting remains unchanged even when the factory setting operation is performed.

No./Item	Description of setting
15 **VO SYS H (SD)*DW**	**For adjusting the system phase of the VIDEO OUT.** When the [SHIFT] button is pressed, the display transfers to the submenu screen; press the [SHIFT] button again to return the display from the submenu screen.
Submenu screen	
00 **COARSE**	**For adjusting the VIDEO OUT system phase in 1H steps.** −: To advance the phase. +: To delay the phase. 0000 −5H : : 0005 0H : : 0010 5H **<Note>** This setting remains unchanged even when the factory setting operation is performed.
01 **FINE**	**For adjusting the VIDEO OUT system phase in 37ns steps.** −: To advance the phase. +: To delay the phase. <59/60Hz, 23/24Hz> 0000 −858 / : : / 0858 0 / : : / 1716 858 <50Hz, 25Hz (HD, SD)> 0000 −864 / : : / 0864 0 / : : / 1728 864 **<Note>** This setting remains unchanged even when the factory setting operation is performed.
16 **SD SYS H (SD)*DW**	**For adjusting the system phase of the SD SDI.** When the [SHIFT] button is pressed, the display transfers to the submenu screen; press the [SHIFT] button again to return the display from the submenu screen.
Submenu screen	
00 **COARSE**	**For adjusting the SD SDI system phase in 1H steps.** −: To advance the phase. +: To delay the phase. 0000 −5H : : 0005 0H : : 0010 5H **<Note>** This setting remains unchanged even when the factory setting operation is performed.
01 **FINE**	**For adjusting the SD SDI system phase in 37ns steps for 480i outputs and in 54ns steps for 480p outputs.** −: To advance the phase. +: To delay the phase. <59/60Hz, 23/24Hz> 0000 −858 / : : / 0858 0 / : : / 1716 858 <50Hz, 25Hz (HD, SD)> 0000 −864 / : : / 0864 0 / : : / 1728 864 **<Note>** This setting remains unchanged even when the factory setting operation is performed.

The underlining (__) denotes the factory setting mode.

***UP: This is for HD outputs (during HD tape playback or up-conversion outputs).**

***DW: This is for SD outputs (during SD tape playback or down-conversion outputs).**

No./Item	Description of setting
18 **SCH (SD)*DW**	**For adjusting the SCH phase.** When the SHIFT button is pressed, the display transfers to the submenu screen; press the SHIFT button again to return the display from the submenu screen.
Submenu screen	
00 **COARSE**	**For adjusting the SCH phase in 90° steps** (The SC phase changes, and the H phase remains unchanged.) **0000: 0** **0001: 90** **0002: 180** **0003: 270**
01 **FINE**	**For adjusting the SCH phase over a total variable range of more than ±45°.** −: To advance the phase. +: To delay the phase. (The SC phase changes, and the H phase remains unchanged.) **0000 −32** **: :** **0032 0** **: :** **0064 32**
20 **AV PHASE**	**For adjusting the audio output phase in relation to the video output phase in 20.8µs steps.** −: The audio output phase is advanced in relation to the video output phase. +: The audio output phase is delayed in relation to the video output phase. **0000 −100** **: :** **0100 0** **: :** **0200 100**
25 **SYSTEM FREQ***	**For selecting the system frequency.** 0: The 59.94 Hz or 60 Hz system frequency is selected. 1: The 50 Hz system frequency is selected. 2: The 23.98 Hz or 24 Hz system frequency is selected. 3: The 25 Hz system frequency is selected. However, with SD SDI and video output signals, there is a delay of approximately one field compared with the HD SDI output. 4: The 25 Hz system frequency is selected. However, HD SDI output is muted. **0003 59/60** **0001* 50*** **0002 23/24** **0003 25 (HD)** **0004 25 (SD)** *** The asterisk denotes the factory setting for AJ-HD1700E** 59/60 Hz mode: Status in which "0" (59/60) has been selected 50 Hz mode: Status in which "1" (50) has been selected 23/24 Hz mode: Status in which "2" (23/24) has been selected 25 Hz (HD) mode: Status in which "3" (25 (HD)) has been selected 25 Hz (SD) mode: Status in which "4" (25(SD)) has been selected **<Notes>** • This setting remains unchanged even when the factory setting operation is performed. • **For the steps to take to switch the system frequency, refer to page 105.**

No./Item	Description of setting
30 **MENU LOCK**	**For selecting whether to set or release the system file lock mode.** **0000 OFF:** Lock released (changes enabled) **0001 ON:** Lock set (changes prohibited) **<Note>** Even when "ON" is selected, the data will be overwritten when the system file has been set to LOAD from the IC card.

***System switching**

- Some of the system menu and setup menu items each have different settings for different operation modes (59/60 Hz, 50 Hz, 23/24 Hz and 25 Hz (HD or SD)). These settings are saved separately.
  (This concerns those items whose settings were described for each operation mode on the system menu and setup menu tables.)
- For further details, refer to "How to switch the system frequency" on page 105.
- **Since this VTR becomes a playback-only unit when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected, the functions relating to EE, recording and editing are all set to the inhibited status. Neither is it possible to select CTL in such a case.**
  (The related menus and function buttons are not displayed, and operation is prohibited.)
  For the instant when the tape begins to run at the 1× speed such as when it starts playing from the STOP status, the image is disrupted and the sound is muted for several frames because the tape is being synchronized with the REF input.

The underlining (__) denotes the factory setting mode.
***DW: This is for SD outputs (during SD tape playback or down-conversion outputs).**

<BASIC>

No./Item	Description of setting
000 **P-ROLL TIME**	**For setting the preroll time.** Any time from 0 to 30 seconds can be set in 1-second increments. **0000 0s** **: :** **0005 5s** **: :** **0030 30s** **<Notes>** • During automatic editing (PREVIEW or AUTO EDIT), no operations are performed if the preroll time is set to 0 seconds. • If the phases are to be synchronized between two decks for editing as per the setup menu item No.004 (SYNCHRONIZE) setting, set the preroll time to at least 2 seconds.
001 **LOCAL ENA**	**For selecting the transport system buttons which can be operated on the front panel in the REMOTE mode.** **0000 DIS:** No buttons can be operated. **0001 ST&EJ:** Only the STOP and EJECT buttons can be operated. **0002 ENA:** All the buttons except for the RECORDER and PLAYER buttons can be operated. **<Note>** The following buttons and dials function at all times regardless of this setting: Audio input/output level control dials, audio channel selector buttons, number keys, function buttons, direct menu button, ASSEM button, INSERT button, ADJ dial, headphone volume control dial, MONITOR SELECT button, METER (FULL/FINE) selector switch, REMOTE button.
002*1 **TAPE TIMER**	**For selecting the 12- or 24-hour system for the CTL counter display.** **0000 ±12h:** 12-hour system display **0001 24h:** 24-hour system display
003 **REMAIN SEL**	**For selecting whether or not to display REMAIN (remaining tape time) on the superimposed display of the HD SDI MONITOR, SD SDI MONITOR and VIDEO OUT3 connectors.** **0000 OFF:** The remaining tape time is not displayed. **0001 2L:** The remaining tape time is displayed on the second line. **0002 1L:** The remaining tape time is displayed on the first line. **0003 R/TTL:** The remaining tape time is displayed on the first line, and the total tape time is displayed on the second line. **<Notes>** • When setting 1 (2L) has been selected, the remaining tape time is not displayed if 0 (TIME) is selected as the setup menu item No.006 (DISPLAY SEL) setting. • When setting 3 (R/TTL) has been selected, the remaining tape time is not displayed if 0 (TIME) is selected as the setup menu item No.006 (DISPLAY SEL) setting.

No./Item	Description of setting
004*1 **SYNCHRONIZE**	**For setting whether or not to synchronize the phases between two decks.** **0000 OFF:** The phases are not synchronized. The edit points will be off by several frames but editing will be commenced more promptly. **0001 ON:** The phases are synchronized. Error-free editing can be performed.
005 **SUPER**	**For selecting whether or not to superimpose the display of the time code or other data onto the HD SDI MONITOR, SD SDI MONITOR and VIDEO OUT3 connectors.** **0000 OFF:** The time code or other data is not displayed. **0001 ON:** The time code or other data is displayed.
006 **DISPLAY SEL**	**For selecting the time code and other displays to be superimposed onto the HD SDI MONITOR, SD SDI MONITOR and VIDEO OUT3 connectors.** **0000 TIME:** Only the time is displayed. **0001 T&STA:** The time and operation mode are displayed. **0002 T&S&M:** The time, operation mode and mode are displayed. **0003 T&RT:** The time and REC TIME are displayed. **0004 T&YMD:** The time and REC DATE (year/month/day) are displayed. **0005 T&MDY:** The time and REC DATE (month/day/year) are displayed. **0006 T&DMY:** The time and REC DATE (day/month/year) are displayed. **0007 T&UB:** Data and user's bit are displayed. However, when UB has been selected with the F3 (TC/CTL) on the HOME menu, the time code is displayed after the user's bit. **0008 T&CTL:** Data and CTL data are displayed. However, when CTL has been selected with the F3 (TC/CTL) on the HOME menu, the time code is displayed after the CTL data. **0009 T&T:** Data and time code are displayed. **(See Notes on next page.)**

*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item.

The underlining (__) denotes the factory setting mode.

<BASIC> (continued)

No./Item	Description of setting
006 **DISPLAY SEL**	**<Notes>** • The following mode displays appear depending on the format used. <Format> <Display> DVCPRO HD-LP → DVCPRO_HD-LP DVCPRO HD → DVCPRO_HD DVCPRO50 → DVCPRO_50 DVCPRO → DVCPRO DV → DV DVCAM → DVCAM • When setting 2 (T&S&M) is selected, an error message appears if a warning or error has occurred. • REC TIME and REC DATE are displayed only during DV or DVCAM format playback. The operation mode is displayed when the DVCPRO HD-LP, DVCPRO HD, DVCPRO50 or DVCPRO format is used.
007 **CHARA H-POS**	**For setting the horizontal positions of the characters for the time code and other superimposed displays of the HD SDI MONITOR, SD SDI MONITOR and VIDEO OUT3 connectors.** **0000 0** **: :** **0006 6** **: :** **0037 37** **<Note>** When this menu item has been set, the displays are output to the VIDEO OUT3 connector in the DISPLAY SEL status even when the SUPER OFF setting is established. However, if the menu has been exited, the SUPER OFF or ON setting is followed. Furthermore, CHARA TYPE is output to the VIDEO OUT3 connector as per the menu setting.
008 **CHARA V-POS**	**For setting the vertical positions of the characters for the time code and other superimposed displays of the HD SDI MONITOR, SD SDI MONITOR and VIDEO OUT3 connectors.** **0000 0** **: :** **0023 23** **: :** **0032 32** **<Note>** When this menu item has been set, the displays are output to the VIDEO OUT3 connector in the DISPLAY SEL status even when the SUPER OFF setting is established. However, if the menu has been exited, the SUPER OFF or ON setting is followed. Furthermore, CHARA TYPE is output to the VIDEO OUT3 connector as per the menu setting.

No./Item	Description of setting
009 **CHARA TYPE**	**For setting the display type for the superimposed displays and for the HD SDI MONITOR, SD SDI MONITOR and VIDEO OUT3 connectors as well as for the SETUP MENU, etc.** **0000 WHITE:** White characters on a black background. **0001 W/OUT:** White characters with black borders.
010*1 **MONI CONTROL**	**For setting whether to forcibly set the recorder to the EE mode and output the player's playback signals to the monitor if the PLAYER button on the recorder is pressed when the monitor is connected only to the recorder during deck-to-deck editing.** **0000 MANU:** The recorder is not forcibly set to the EE mode. **0001 AUTO:** The recorder is forcibly set to the EE mode, and the player's playback signals are output.
011 **CU-ROLL TIME**	**For setting the preroll time in the MULTI CUE mode.** Any time from 0 to 15 seconds can be set in 1-second increments. **0000 0s:** **: :** **0005 5s:** **: :** **0015 15s:**
015 **AUTO STEP**	**For selecting the save processing to be conducted when the memory capacity, which enables up to 99 warning messages to be saved, has been exceeded while the error log function is operating.** **0000 OFF:** 99 messages are set as the upper limit, and any more warning messages which subsequently occur are not saved in the memory. **0001 ON:** 99 messages are saved, and the next warning message that has subsequently occurred is saved as No.99. The warning messages already saved are each shifted down by one number in succession.
020*2 **SYS FORMAT**	**For selecting the VTR's recording format.** **0000 1080i:** The 1080i format is selected. **0001 720p:** The 720p format is selected.

*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

*2: This item is not displayed when the 23/24 Hz, 25 Hz (HD or SD) or 50 Hz mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

The underlining (__) denotes the factory setting mode.

<BASIC> (continued)

No./Item	Description of setting
022 **PB FORMAT**	**For selecting the format in which the tape is to be played back.** **0000 MANU:** The format is determined by the setting selected for setup menu item No.023 (FORMAT SEL). **0001 AUTO:** The tape is played back in the format in which it was recorded.
023 **FORMAT SEL**	**For selecting the format when "MANUAL" has been selected as the setup menu item No.022 (PB FORMAT) setting.** If "AUTO" is selected as the setting, the format when playback starts is selected, and when the tape is played back, the format is automatically detected and matched with the format of the playback tape. **0000 HD-LP:** The DVCPRO HD-LP format is selected, and the setup menu item No.020 (SYS FORMAT) setting is followed. **0001 HD-SP:** The DVCPRO HD format is selected, and the setup menu item No.020 (SYS FORMAT) setting is followed. **0002 422:** The DVCPRO50 (422) format is selected. **0003 411:** The DVCPRO (411) format is selected. **0004 420p:** The DVCPROP (420p) format is selected. **0005 DV:** The DV format is selected. **0006 DVCAM:** The DVCAM format is selected.
030*3 **HD FREQUENCY**	**0000 59/23:** The 59.94/23.98 Hz frequency is set. **0001 60/24:** The 60/24 Hz frequency is set. However, the field frequency set here is used only when there is no input signal which corresponds to the OUT REF setting. If there is a corresponding input signal, the field frequency is matched with that of the input signal.
031*4 **OUT REF**	**Video output reference** **0000 AUTO:** When the HD REF input signal is supplied, it is used as the reference. If it is not supplied but the SD REF input signal is supplied, the SD REF signal serves as the reference instead. If neither the HD REF nor SD REF input signal is supplied, the HD serial signal serves as the reference. If none of the HD REF, SD REF and HD serial signals are supplied, the internal sync signal serves as the reference. **0001 INPUT:** When the serial input signal is supplied, it is used as the reference. **0002 HD_REF:** The signal which is input to the HD REF IN connector is used as the reference. **0003 SD_REF:** The signal which is input to the SD REF IN connector is used as the reference. **<Note>** If the 1 (INPUT) setting is selected when the 25 Hz (HD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting, the system will construe this to mean that the 0 (AUTO) setting has been selected.

Formats in which the tape is played back

022: PB FORMAT	020: SYS FORMAT	023: FORMAT SEL	Playback format
MANUAL	1080i	HD_LP	DVCPRO HD-LP(1080i)
		HD_SP	DVCPRO HD(1080i)
		422	DVCPRO50(422)
		411	DVCPRO(411)
		420p	DVCPROP(420p)
		DV	DV
		DVCAM	DVCAM
	720p	HD_LP	DVCPRO HD-LP(720p)
		HD_SP	DVCPRO HD(720p)
		422	DVCPRO50(422)
		411	DVCPRO(411)
		420p	DVCPROP(420p)
		DV	DV
		DVCAM	DVCAM
AUTO	——	——	DVCPRO HD-LP(1080i)/ DVCPRO HD(1080i)/ DVCPRO HD-LP(720p)/ DVCPRO HD(720p)/ DVCPRO50(422)/ DVCPRO(411)/ DVCPROP(420p)/DV/ DVCAM, automatic detection

<Notes>

- In the EJECT mode, the format selected by the setup menu item No.020 (SYS FORMAT) setting applies.
- If "AUTO" has been selected as the setup menu item No.022 (PB FORMAT) setting, the setup menu item No.023 (FORMAT SEL) setting is used as the format when the format is not detected (when the tape has just been inserted).
  However, when "DV" or "DVCAM" has been selected, the VTR operation will be as if "HD-LP" has been selected.

*3: This item is not displayed when the 50 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

*4: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

The underlining (__) denotes the factory setting mode.

<OPERATION>

No./Item	Description of setting
100 **SEARCH ENA**	**For selecting the direct search dial operation.** **0000 DIAL:** Direct search dial operations are performed. **0001 KEY:** Operation does not transfer to the search mode unless the SHTL, JOG or VAR button is pressed.
101 **SHTL MAX**	**For selecting the maximum speed of shuttle operations.** **0000 ×9.8:** ×9.8 times normal speed **0001 ×16:** ×16 times normal speed **0002 ×32:** ×32 times normal speed **<Note>** Depending on the tape format, the actual tape running speed differs slightly from what is indicated by the superimposed display.
102 **FF. REW MAX**	**For setting the maximum speed of fast forward and rewind operations.** **0000 ×16:** ×16 times normal speed **0001 ×32:** ×32 times normal speed **0002 ×50:** ×50 times normal speed **0003 ×60:** ×60 times normal speed **0004 ×100:** ×100 times normal speed **<Note>** The maximum speed is automatically limited to 50x for the DVCPRO HD and DVCPRO50 format and to 32x for the DV and DVCAM formats.
104 **REF ALARM**	**For selecting whether a warning is to be displayed when the REF VIDEO signal has not been connected.** **0000 OFF:** A warning is not displayed. **0001 ON:** A warning is displayed by the blinking STOP lamp.
105*1 **AUTO EE SEL**	**For selecting the VTR mode which is to be set to the EE mode when "0 (EE)" is selected as the setup menu item No.140 (OUTPUT) setting.** **0000 S/F/R:** The EE mode is established when the VTR is in the STOP, FF or REW mode. **0001 STOP:** The EE mode is established when the VTR is in the STOP mode only.

*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

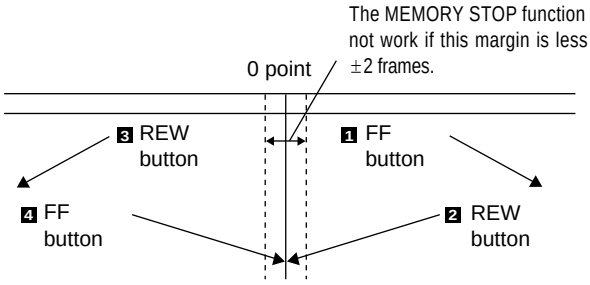
The underlining (__) denotes the factory setting mode.

No./Item	Description of setting
106 **EJECT EE SEL**	**For selecting the video and audio output statuses in the EJECT mode.** **0000 EE:** The EE mode is always established regardless of the setup menu item No.140 (OUTPUT) setting. **0001 BLACK:** When setup menu item No.140 (OUTPUT) is set to: "EE": The EE mode is established. "TAPE": The BLACK mode is established for the video signals, and the audio signals are muted. **0002 GRAY:** When setup menu item No.140 (OUTPUT) is set to: "EE": The EE mode is established. "TAPE": The GRAY mode is established for the video signals, and the audio signals are muted. **<Note>** If 0 (EE) is selected while the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting, the VTR construes that 1 (BLACK) has been selected.
107*1 **EE MODE SEL**	**For selecting what signals are to be output when the EE mode is established.** **0000 NORMAL:** Signals delayed by an amount equivalent to the time taken for the signals to be processed internally are output. **0001 THRU:** The signals are not processed internally but output in their original form with no delay. **<Note>** The internal operation forcibly sets "NORMAL" when an editing mode is selected or when SDTI is selected during video input signal selection.
108 **PLAY DELAY**	**For setting the play startup time in 1-frame increments.** **0000 0** **: :** **0015 15**
109*1 **CAP. LOCK**	**For selecting whether to engage playback framing lock in 4-field increments or in 2-field increments.** **<59/60Hz>** **<50Hz>** **0000 2F** **0000 2F** **0001 4F** **0001 4F** **0002 8F**
110 **AUTO REW**	**For selecting whether the tape is to be automatically wound back to its beginning when the tape-end has been detected.** **0000 OFF:** The tape stops when it reaches the tape-end. **0001 ON:** The tape is rewound to its beginning.
111*1 **MEMORY STOP**	**For selecting whether to automatically stop the VTR when the counter value is at the "0" position during CTL mode FF and REW operations.** **0000 OFF:** The VTR does not stop. **0001 ON:** The VTR is automatically stopped. **<Notes>** • Either the stop or still picture (SHTL STILL or VAR STILL) mode, whichever has been set using setup menu item No.307 (AFTER CUE-UP), is established when the VTR is stopped. • If both the AUTO REW function and MEMORY function have been selected at the same time, the AUTO REW operation takes priority.

<OPERATION> (continued)

No./Item	Description of setting
112 **FRZ MODE SEL**	**For selecting what playback images are to be output in the STANDBY OFF mode and EJECT mode.** **0000 DIS:** The video output is muted. **0001 STB OFF:** Only when the STANDBY OFF mode is established is the image which was being played back at that moment frozen and output. **0002 SOF&EJ:** When either the STANDBY OFF mode or the EJECT mode is established, the image which was being played back at that moment is frozen and output. **<Notes>** • The status when the picture is frozen is determined by the setup menu item No.604 (FREEZE SEL) setting. • In the EJECT mode, the frozen picture is output only when 1 (BLACK) or 2 (GRAY) has been selected as the setup menu item No.106 (EJECT EE SEL) setting. • The picture freeze is forcibly released if a change has occurred in the output format of the HD serial output signals when operation has transferred to the EJECT mode.

Description of MEMORY STOP function



1 If the FF button is pressed, the normal FF operation is performed since there is no 0 point in the direction of this operation.

2 If the REW button is pressed, the PREROLL lamp lights (as does the SHTL lamp), the VTR prerolls the tape, and it automatically stops when the counter value is at the 0 position.

3 If the REW button is pressed, the normal REW operation is performed since there is no 0 point in the direction of this operation.

4 If the FF button is pressed, the PREROLL lamp lights (as does the SHTL lamp), the VTR prerolls the tape, and it automatically stops when the counter value is at the 0 position.

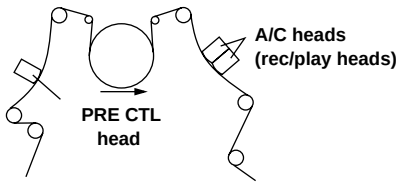
*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

The underlining (__) denotes the factory setting mode.

No./Item	Description of setting
113*1 **REC INH**	**For selecting whether to allow or inhibit recording on the cassette tape.** **0000 OFF:** Recording on the cassette tape is enabled when the cassette's accidental erasure prevention mechanism has been set to the recording enable position. **0001 ALL:** All recording on the cassette tape is inhibited. **0002 PRE:** Overwriting is inhibited during normal recording. This is the setting to activate the accidental erasure prevention function. While CTL is detected, the recording is inhibited, and when CTL cannot be detected, it is executed. **0003 NORM:** Normal recording is inhibited. Use this setting when it is preferable to avoid using normal recording in all applications except for editing. **0004 V/CTL:** The recording of the video and CTL signals is inhibited. Use this setting when it is preferable to avoid editing in all applications except for audio editing. **<Note>** When the PRE, NORM or V/CTL setting has been selected, the REC INHIBIT lamp blinks (on for approx. 0.5 sec. and then off for approx. 0.5 sec.).
114 **REC INH LAMP**	**For selecting whether the REC INHIBIT lamp is to blink or light when the cassette tape has been set to the accidental erasure protection mode.** **0000 LIGHT:** The lamp lights. **0001 FLASH:** The lamp blinks. **<Note>** If 1 (ALL) has been selected as the setup menu item No.113 (REC INH) setting, the REC INHIBIT lamp will be lighted at all times regardless of the REC INH LAMP setting.
115*1 **EJECT SW INH**	**For selecting whether to enable or disable the operation of the EJECT button on the VTR's front panel.** **0000 REC:** Operation is disabled while the VTR is in the recording mode. **0001 OFF:** Operation is enabled in all modes.

Accidental erasure protection function

This function is used to prevent parts already recorded on a tape from being recorded over. Accidental erasure of pre-recorded tapes is prevented by positioning the CTL signal rec/play heads as shown in the figure below so that whether a recording has been made can be determined by the presence or absence of the CTL signal. When the REC/PLAY button is pressed with a pre-recorded tape, the tape runs but the REC button lamp blinks, the beeping alarm is sounded, and no signals are recorded.



Rough sketch showing CTL head positions

<OPERATION> (continued)

No./Item	Description of setting
116 **EJECT LAMP**	**For selecting whether the EJECT lamp is to remain lighted or go off after the cassette tape has been ejected.** **0000 MODE1:** The EJECT lamp remains lighted. **0001 MODE2:** The EJECT lamp goes off.
118*1 **SP MODE INH**	**For selecting whether to allow or inhibit recording on a tape which has been written by a format other than DVCPRO HD-LP.** **0000 OFF:** Recording on the cassette tape is allowed. **0001 ON:** Recording on the cassette tape is inhibited. **<Notes>** • When 0 (OFF) has been selected, whether recording on the cassette tape is allowed or inhibited is determined by the setup menu item No.113 (REC INH) setting. • The recording format is determined by the setup menu item No.020 (SYS FORMAT) setting.
131 **PAGE MODE**	**For selecting what cue point operation is to be performed when the multi cue function has been set to ON.** **0000 MANU:** Operation is confined within the selected page, and 6 cue points can be registered. **0001 AUTO:** When the page whose cue points are being registered becomes full, operation is automatically transferred to the next page, and registration is continued. A total of 60 cue points on up to 10 pages can be registered.
132 **ROTA MODE**	**For selecting whether to perform the registration operation if all the cue points have already been registered when the multi cue function has been set to ON.** **0000 OFF:** No further cue points are registered. **0001 ON:** The registration operation is continued. If "MANU" has been selected as the setup menu item No.131 (PAGE MODE) setting, the next cue point is registered at CUE∗1 on the page concerned; if "AUTO" has been selected, it is registered at CUE01.
133 **KEY BEEP**	**For setting the volume of the sound heard when the keys are touched.** **0000 OFF** **0001 LOW** **0002 HIGH**
134 **ALARM BEEP**	**For setting the volume of the alarm tone.** **0000 OFF** **0001 LOW** **0002 HIGH** **<Note>** If the fan motor has shut down, the alarm tone is sounded at the HIGH volume level regardless of this setting.

*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

The underlining (__) denotes the factory setting mode.

No./Item	Description of setting
140*1 **OUTPUT**	**For selecting the output signals.** **0000 EE:** <In the STOP mode>: The input signals selected by setup menu items No.600 (VIDEO IN SEL) and No.713 (CH1 IN SEL) to No.724 (D IN SEL 78) are output. <During recording or editing>: The input signals selected by setup menu items No.600 (VIDEO IN SEL) and No.713 (CH1 IN SEL) to No.724 (D IN SEL 78) are output: **0001 TAPE:** <In the STOP mode> The signals played back from the tape are output. <During recording or editing>: The simultaneous playback signals are output. **<Note>** In order to select the output signals during recording or editing, set setup menu item No.302 (CONFI EDIT).
141*1 **VOLUME**	**For setting what is to be controlled by the audio volume controls on the front panel.** **0000 REC:** The controls function as REC volume controls. **0001 PB:** The controls function as PB volume controls. **0002 AUTO:** Normally, the controls function as PB volume controls. However, during recording or in the EE/INPUT CHECK status, they automatically function as REC volume controls.
142*1 **AUDIO UNITY**	**For selecting the conditions under which the AUDIO UNITY lamp on the front panel is to light.** **0000 IN:** The lamp lights when all the audio input levels are set to the UNITY level. **0001 OUT:** The lamp lights when all the audio output levels are set to the UNITY level. **0002 IN/OUT:** The lamp lights when all the audio input and output levels are set to the UNITY level.
143 **CASSTT LIGHT**	**For setting whether the lighting of the tape mechanism is to be set to ON or remain OFF.** **0000 OFF:** The mechanism does not light even when a cassette is inserted. **0001 ON:** The mechanism lights when a cassette is inserted.
144 **TC INPUT**	**For switching the preset registration method for the time code.** **0000 NORMAL:** The time code is input starting with the left-most digit. **0001 REV:** The time code is input from the high-order digit but is displayed from the right-most digit.
145 **FRONT LCD**	**For selecting whether the LCD monitor display on the front panel is to be turned on or off.** **0000 OFF:** The display is turned off. **0001 ON:** The display is turned on or off in synchronization with the screen saver operation for the time code display area.

<INTERFACE>

No./Item	Description of setting
200 **PARA RUN**	**For selecting whether to operate two or more VTRs in synchronization.** **0000 DIS:** The VTRs are not operated in synchronization. **0001 ENA:** The VTRs are operated in synchronization. **<Note>** To operate the VTRs in synchronization, set all the VTRs to 1 (ENA). (Refer to pages 14 and 19.)
202 **ID SEL**	**For setting what ID information is to be returned to the controller.** **0000 OTHER** **0001 DVCPRO** **0002 ORIG** **<Notes>** • For 0 (OTHER), the ID information of VTRs other than DVCPRO models is set. • Select 2 (ORIG) only when the VTR is connected to a Panasonic controller (such as the AJ-A900, an optional accessory). • Select 1 (DVCPRO) or 2 (ORIG) if the 23/24 Hz mode has been selected by system menu item No.25 (SYSTEM FREQ).
204 **RS232C SEL**	**For selecting whether the RS-232C connector is to function.** **0000 OFF:** The RS-232C connector does not function. **0001 ON:** The RS-232C connector functions.
205 **BAUD RATE**	**For setting the RS-232C data transfer speed (baud rate).** **0000 300** **0001 600** **0002 1200** **0003 2400** **0004 4800** **0005 9600**
206 **DATA LENGTH**	**For setting the RS-232C data length.** (Unit: bits) **0000 7** **0001 8**
207 **STOP BIT**	**For setting the number of RS-232C stop bits.** (Unit: bits) **0000 1** **0001 2**
208 **PARITY**	**For setting whether the RS-232C parity bit is to be used and, if it is used, whether even or odd parity is to apply.** **0000 NON:** The parity bit is not used. **0001 ODD:** The parity bit is used with an odd parity. **0002 EVEN:** The parity bit is used with an even parity.

No./Item	Description of setting
209 **RETURN ACK**	**For setting whether or not to return the ACK code when a command is received from RS-232C.** **0000 OFF:** The ACK code is not returned. **0001 ON:** The ACK code is returned.
212 **MASTER PORT**	**For selecting the remote control connector for controlling the slave machine when this VTR is to be used as the master machine for deck-to-deck operations.** **0001 IN/OUT:** The IN/OUT connector is used. **0001 OUT:** The OUT connector is used. **<Note>** This setting takes effect only when the 9P button has been set to LOCAL (LED off).

The underlining (__) denotes the factory setting mode.

<EDIT>

No./Item	Description of setting
300 **IN/OUT DEL**	**For selecting the operation to be performed when an edit point has been set incorrectly (when the OUT point comes before the IN point).** **0000 MANU:** Editing is not performed unless the illegal edit point is cleared or set properly. **0001 AUTO:** The edit point which had already been input is cleared automatically.
301 **NEGA FLASH**	**For selecting whether to show a negative display (time code display area) when the IN point is greater than the OUT point.** **0000 OFF:** A negative display is not shown. **0001 ON:** A negative display is shown.
302 **CONFI EDIT**	**For selecting whether to perform simultaneous playback during editing.** **0000 OFF:** Simultaneous playback is not performed. **0001 ON:** Simultaneous playback is performed. **<Note>** Simultaneous playback takes effect when TAPE is selected as the F1 key [OUTPUT] setting on the <HOME> menu. Refer to setup menu item No.140 as well.
303*1 **AUD EDIT IN**	**For selecting how to connect the digital audio edit IN points.** **0000 CUT:** Cut processing **0001 FADE:** V-fade processing
304*1 **AUD EDIT OUT**	**For selecting how to connect the digital audio edit OUT points.** **0000 CUT:** Cut processing **0001 FADE:** V-fade processing
305 **AUTO ENTRY**	**For selecting whether to register the IN points using the PREROLL button in cases where the IN points have not been registered.** **0000 DIS:** The IN points are not registered. **0001 ENA:** The IN points are registered.
306*1 **CF ADJ SEL**	**For selecting the deck whose the color framing is to be adjusted during deck-to-deck editing.** **0000 PLAYER:** The player's IN and OUT points are adjusted (using the recorder as the reference). **0001 RECORD:** The recorder's IN and OUT points are adjusted (using the player as the reference).
307 **AFTER CUE-UP**	**For selecting the VTR's mode upon completion of the cue-up operation.** **0000 STOP:** The VTR is set to the STOP mode. **0001 STILL:** The VTR is set to the still picture (SHTL STILL) mode. **0002 STILL2:** The VTR is set to the still picture (VAR STILL) mode.

No./Item	Description of setting
308 **VAR FWD MAX**	**For setting the maximum speed of VAR FWD.** **0000 +4.9:** +4.9 times normal tape speed **0001 +2:** +2 times normal tape speed (+1.85 times normal tape speed for formats other than DVCPRO HD-LP) **0002 +1:** +1 times normal tape speed **<Notes>** • At any setting other than 0 (+4.9), phase adjustments cannot be conducted from the editing controller. • Depending on the format used, the actual tape running speed differs slightly from what is indicated by the superimposed display.
309 **VAR REV MAX**	**For setting the maximum speed of VAR REV.** **0000 −4.9:** −4.9 times normal tape speed **0001 −2:** −2 times normal tape speed (−1.85 times normal tape speed for formats other than DVCPRO HD-LP) **0002 −1:** −1 times normal tape speed **<Note>** Depending on the format used, the actual tape running speed differs slightly from what is indicated by the superimposed display.
310 **JOG FWD MAX**	**For setting the maximum speed of JOG FWD.** **0000 +4.9:** +4.9 times normal tape speed **0001 +2:** +2 times normal tape speed (+1.85 times normal tape speed for formats other than DVCPRO HD-LP) **0002 +1:** +1 times normal tape speed **<Notes>** At any setting other than 0 (+4.9), phase adjustments cannot be conducted from the editing controller which performs these adjustments by the JOG command.
311 **JOG REV MAX**	**For setting the maximum speed of JOG REV.** **0000 −4.9:** −4.9 times normal tape speed **0001 −2:** −2 times normal tape speed (−1.85 times normal tape speed for formats other than DVCPRO HD-LP) **0002 −1:** −1 times normal tape speed
312 **POSTROLL TM**	**For setting the postroll time.** Any time from 0 to 5 seconds can be set in 1-second increments. **0000 0s** **0001 1s** **0002 2s** **0003 3s** **0004 4s** **0005 5s**

*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

The underlining (__) denotes the factory setting mode.

<EDIT> (continued)

No./Item	Description of setting
320*1 **EDIT RPLCE1**	**For setting the allocation of the channels for the analog audio presets of a controller when a controller without a function to control the edit presets of the digital audio signals is used to edit the digital audio signals of the VTR.** The VTR's CH1 edit presets are set to ON or OFF following the analog audio signals specified by the controller. **0000 N-DEF:** Not set. **0001 CH1:** The analog CH1 edit presets are followed. **0002 CH2:** The analog CH2 edit presets are followed. **0003 CH1+2:** The analog CH1 or CH2 edit presets are followed.
321*1 **EDIT RPLCE2**	**As with setup menu item No.320, the VTR's CH2 edit presets are set to ON or OFF following the analog audio signals specified by the controller.** **0000 N-DEF:** Not set. **0001 CH1:** The analog CH1 edit presets are followed. **0002 CH2:** The analog CH2 edit presets are followed **0003 CH1+2:** The analog CH1 or CH2 edit presets are followed.
322*1 **EDIT RPLCE3**	**As with setup menu item No.320, the VTR's CH3 edit presets are set to ON or OFF following the analog audio signals specified by the controller.** **0000 N-DEF:** Not set. **0001 CH1:** The analog CH1 edit presets are followed. **0002 CH2:** The analog CH2 edit presets are followed **0003 CH1+2:** The analog CH1 or CH2 edit presets are followed.

No./Item	Description of setting
323*1 **EDIT RPLCE4**	**As with setup menu item No.320, the VTR's CH4 edit presets are set to ON or OFF following the analog audio signals specified by the controller.** **0000 N-DEF:** Not set. **0001 CH1:** The analog CH1 edit presets are followed. **0002 CH2:** The analog CH2 edit presets are followed. **0003 CH1+2:** The analog CH1 or CH2 edit presets are followed.
324*1 **EDIT RPLCEC**	**As with setup menu item No.320, the VTR's CUE edit presets are set to ON or OFF following the analog audio signals specified by the editor or controller.** **0000 N-DEF:** Not set. **0001 CH1:** The analog CH1 edit presets are followed. **0002 CH2:** The analog CH2 edit presets are followed. **0003 CH1+2:** The analog CH1 or CH2 edit presets are followed.

*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

The underlining (__) denotes the factory setting mode.

<TAPE PROTECT>

No./Item	Description of setting
400 **STILL TIMER**	**For selecting the duration of the time taken after the VTR is left standing in the STOP or search STILL mode (JOG, VAR or SHTL) before the tape protection mode is established.** (Units: s = seconds, min = minutes) **0000 0.5s** **0001 5s** **0002 10s** **0003 20s** **0004 30s** **0005 40s** **0006 50s** **0007 1min** **0008 2min** **<Note>** When a DV or DVCAM tape is used, the time is set to 10 seconds even when a setting of 2 (10s) or longer is selected.
401 **SRC PROTECT**	**For selecting the operation to be performed when the tape protection mode is established after the VTR has been left standing in the STILL status in a search mode (JOG, VAR or SHTL).** **0000 STEP:** STEP FWD **0001 HALF:** Half-loading **0002 T-REL:** Tension release **<Notes>** • When STEP FWD is selected, the VTR is automatically transferred to the standby OFF (half-loading) mode after it has been left standing in the STILL status for a total of 30 minutes (or 1 minute in the case of a DV or DVCAM tape). • When, after tension release has been selected and the VTR has been transferred to the tension release mode, the VTR has been left standing in this mode for a total of 2 hours, it is automatically transferred to the standby OFF (half-loading) mode. However, in the case of a DV or DVCAM tape, the transfer to the tension release mode is inhibited, and the VTR operates as if STEP FWD has been selected.
402 **DRUM STDBY**	**For selecting whether the drum is to operate in the standby OFF (half-loading) mode.** **0000 OFF:** The drum stops rotating. **0001 ON:** The drum continues to rotate.

No./Item	Description of setting
403 **STOP PROTECT**	**For selecting the operation to be performed when the tape protection mode is established after the VTR has been left standing in the STOP mode.** **0000 STEP:** STEP FWD **0001 HALF:** Half-loading **0002 T-REL:** Tension release **<Notes>** • When STEP FWD is selected, the VTR is automatically transferred to the standby OFF (half-loading) mode after it has been left standing in the STOP mode for a total of 30 minutes (or 1 minute in the case of a DV or DVCAM tape). • When, after tension release has been selected and the VTR has been transferred to the tension release mode, the VTR has been left standing in this mode for a total of 2 hours, it is automatically transferred to the standby OFF (half-loading) mode. However, in the case of a DV or DVCAM tape, the transfer to the tension release mode is inhibited, and the VTR operates as if STEP FWD has been selected.

<Precaution for STILL TIMER item setting>
The cumulative total standby time passed in the same location increases at such times when the same material is repeatedly used as is the case when programs are transmitted, for example.

The underlining (__) denotes the factory setting mode.

<TIME CODE>

No./Item	Description of setting
500*4 **VITC BLANK**	**For selecting whether or not to output the VITC signal at the positions selected by setup menu items No.501 (VITC POS-1) and No.502 (VITC POS-2).** **0000 BLANK:** The VITC signal is not output. **0001 THRU:** The VITC signal is output. **<Note>** Only the SD output takes effect at this setting.
501*4 **VITC POS-1**	**For setting the position where the VITC signal is to be inserted.** **<59/60Hz>** **<50Hz, 25Hz (SD)>** **0000 10L** **0000 7L** **: : : :** **0006 16L** **0004 11L** **: : : :** **0010 20L** **0015 22L** **<Notes>** • The same line as the one selected by the setup menu item No.502 (VITC POS-2) cannot be selected. • Only the SD output takes effect at this setting.
502*4 **VITC POS-2**	**For setting the position where the VITC signal is to be inserted.** **<59/60Hz>** **<50Hz, 25Hz (SD)>** **0000 10L** **0000 7L** **: : : :** **0008 18L** **0006 13L** **: : : :** **0010 20L** **0015 22L** **<Notes>** • The same line as the one selected by the setup menu item No.501 (VITC POS-1) cannot be selected. • Only the SD output takes effect at this setting.
503*1 **TCG MODE**	**For setting the synchronization of the internal time code generator.** **0000 REGEN:** The time code reader is synchronized with the time code which is read from the tape. **0001 PRE:** Presetting is enabled at the operation panel or by the remote controller. **0002 AUTO:** The REGEN and PRE settings are automatically switched in accordance with the operation mode. In the editing mode: REGEN is selected. In all other modes: PRE is selected.
504*1 **RUN MODE**	**For setting when the internal time code generator is to advance depending on the operation mode.** **0000 REC:** The time code generator is advanced during recording. **0001 FREE:** The time code generator is advanced while the power is on regardless of which operation mode is established.

No./Item	Description of setting
505*1 **TCG REGEN**	**For selecting the regeneration signal when REGEN has been selected as the TCG (time code generator) mode.** **0000 TC&UB:** Regeneration applies to both the time code and user's bit. **0001 TC:** Regeneration applies only to the time code only. **0002 UB:** Regeneration applies only to the user's bit only.
506*1 **REGEN MODE**	**For selecting the editing mode range when the VTR is operating in the REGEN mode while performing editing operations with "AUTO" selected as the setup menu item No.503 (TCG MODE) setting.** **0000 AS&IN:** Regeneration applies during assemble or insert editing. **0001 ASSEM:** Regeneration applies during assemble editing. **0002 INSRT:** Regeneration applies during insert editing.
507*1 **TC SOURCE**	**For selecting the time code to be used when HD SDI or SD SDI has been selected as the setup menu item No.600 (VIDEO IN SEL) setting when an external time code is to be used.** **[When HD SDI has been selected]** **0000 INT:** The time code of the internal time code generator is used. **0001 EXT_L:** LTC of the TIME CODE IN connector is used. **0002 SLTC:** The LTC information added to the serial signals which are input to HD SDI IN is used. **0003 SVITC:** The VITC information added to the serial signals which are input to HD SDI IN is used. **[When SD SDI has been selected]** **0000 INT:** The time code of the internal time code generator is used. **0001 EXT_L:** LTC of the TIME CODE IN connector is used. **0002 VITC:** The VITC information added to the serial signals which are input to SD SDI IN is used. **<Note>** If the VIDEO IN SEL input selection is changed, the time code is converted as shown below. **[HD_SDI] [SD_SDI]** **INT ↔ INT** **EXT_L ↔ EXT_L** **SLTC ↔ EXT_L** **SVITC ↔ VITC**

*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

*2: This item is not displayed when the 23/24 Hz or 25 Hz (HD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

The underlining (__) denotes the factory setting mode.

<TIME CODE> (continued)

No./Item	Description of setting
508*1 **BINARY GP**	**For setting how the user's bit of the time code generated by the TCG is to be used.** **0000 000:** NOT SPECIFIED (no character set specified) **0001 001:** ISO CHARACTER (8-bit character set complying with ISO646, ISO2022 standards) **0002 010:** UNASSIGNED 1 (undefined) **0003 011:** UNASSIGNED 2 (undefined) **0004 100:** UNASSIGNED 3 (undefined) **0005 101:** PAGE/LINE **0006 110:** UNASSIGNED 4 (undefined) **0007 111:** UNASSIGNED 5 (undefined)
509 **PHASE CORR**	**For selecting whether to exercise phase correction control over the LTC which is generated by the TCG.** **0000 OFF:** Phase correction control is not exercised. **0001 ON:** Phase correction control is exercised.
510*1 **TCG CF FLAG**	**For selecting whether to set the CF flag of the TCG to ON or OFF.** **0000 OFF:** The CF flag is set to OFF. **0001 ON:** The CF flag is set to ON.
511*2 **DF MODE**	**For selecting the drop frame or non-drop frame mode for CTL and TCG.** **0000 DF:** The drop frame mode is selected. **0001 NDF:** The non-drop frame mode is selected. **<Note>** This DF mode setting takes effect only when LOCAL is selected or when "ENA" has been selected as the setup menu item No.001 (LOCAL ENA) setting.
512*1 **TC OUT REF**	**For switching the phase of the time code, which is output from the TIME CODE OUT connector, in response to the external LTC input when a setting other than "INT" has been selected for setup menu item No.507 (TC SOURCE). (In EE mode only)** **0000 V OUT:** The phase is aligned with the output image. **0001 TC IN:** The phase is aligned with the external time code input.

SBC (sub code data) area:
This is an area on the helical track, and it is separate from the video and audio data area. The time codes, recording dates and times and other tape control information complying with SMPTE/EBU standards are stored here. As with the conventional LTC (linear time code), the time code can be read even during rewinding or fast forwarding. It can also be read out when the tape has stopped.
VAUX (video auxiliary data) area:
This area is to be found in the video data area on the helical track. The additional information relating to the video data is stored here.

*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.
*2: This item is not displayed when the 23/24 Hz, 25 Hz (HD or SD) or 50 Hz mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

No./Item	Description of setting
513 **VITC OUT**	**For selecting how to output the VITC which is superimposed on the output video signal.** **0000 SBC:** In the playback mode, the time code recorded in the SBC area is output. **0001 VAUX:** In the playback mode, the time code recorded in the VAUX area is output. **<Note>** The VITC information detected by the HD serial input is automatically recorded in the VAUX area when the video signals are recorded.
514 **HD EMBD VITC**	**For selecting whether to superimpose the VITC information on the HD serial output.** **0000 OFF:** The VITC information is not superimposed. **0001 ON:** The VITC information is superimposed.
515 **HD EMBD LTC**	**For selecting whether to superimpose the LTC information on the HD serial output.** **0000 OFF:** The LTC information is not superimposed. **0001 ON:** The LTC information ist superimposed.
516*1 **TC OUT ADV**	**For selecting the processing to align the phase of the time code which is output from the TIME CODE OUT connector.** Normally, the time code which is output from the TIME CODE OUT connector is aligned with the output video and audio. If so required by the connection with an external component or for some other reason, this item makes it possible to set the mode for aligning the phase with the input. **0000 OFF:** The phase alignment processing is not conducted. The time code which is output from the TIME CODE OUT connector is aligned with the output video and audio. **0001 EDIT:** During playback when an editing mode has been selected and during editing, the time code which is output from the TIME CODE OUT connector is aligned with the input video and audio. In all other modes, it is aligned with the output video and audio.
517*1 **TCG OUT**	**For selecting whether to latch the TCG display and LTC output during INPUT CHECK.** **0000 MOMENT:** The INPUT CHECK mode is established only while the INPUT CHECK key is held down. **0001 LATCH:** When the INPUT CHECK key is pressed, the INPUT CHECK mode is established; even when it is released, the mode remains unchanged. The selection is released when the video output is set to a mode other than the EE mode.

The underlining (__) denotes the factory setting mode.

<VIDEO>

No./Item	Description of setting
600*1 **VIDEO IN SEL**	**For selecting the video signal which is to be input.** **0000 INT SG:** The internal signal selected by the VIDEO INT SG item is generated. **0001 HDSDI:** The serial video signal which has been input to the HD SDI IN connector is selected. **0002 SDTI: (In 59/60 Hz mode)** The compressed IF signal which has been input to the SDTI IN connector is selected. (This setting does not appear when the AJ-YAC15P optional board has not been installed.) **0002 SD SDI:** The serial video signal which has been input to the SD SDI IN connector is selected. (This setting does not appear when the AJ-UC1700G optional board has not been installed.)
601*1 **VIDEO INT SG**	**For selecting the type of internal signal.** **0000 100%CB:** A 100% color bar signal is selected. **0001 75%CB:** A 75% color bar signal is selected. **0002 SMPTE:** An SMPTE color bar signal is selected. **0003 ARIB:** An ARIB color bar signal is selected. **0004 MB:** A multiburst signal is selected. **0005 RAMP:** A ramp signal is selected. **0006 BLACK:** A black signal is selected. **0007 PLL:** A PLL signal is selected. **0008 EQ:** An EQ signal is selected.
602*1 **SDI IN MODE**	**For selecting how to process the serial input.** **0000 DR OFF:** The 8 higher bits after rounding up the 2 lowest bits are recorded. **0001 DR ON:** The signal with 8 higher bits, obtained by dynamic rounding, is recorded.
603 **V-MUTE SEL**	**For selecting whether to mute the video output signals if LOW RF has been detected during playback.** **0000 N MUTE:** The signals are not muted. (They are frozen.) **0001 GRAY:** The signals are muted with gray. **0002 BLACK:** The signals are muted with black. **0003 NOISE:** The signals are muted with noise.
604*1 **FREEZE SEL**	**For selecting the freeze mode of the still pictures and slow playback mode.** **0000 FIELD:** Field freeze, field slow **0000 FRAME:** Frame freeze, frame slow

*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item.

*4: This item is not displayed when the 23/24 Hz or 25 Hz (HD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

*5: This item is not displayed when the 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

The underlining (__) denotes the factory setting mode.

No./Item	Description of setting
605*1 **INTERPOLATE**	**During field slow playback, vertical interpolation is conducted automatically to minimize the up/down movement of the playback pictures. However, this setting enables the interpolation operation to be forcibly set to OFF.** **0000 OFF:** The interpolation is forcibly set to OFF. **0001 AUTO:** During slow playback, the interpolation is automatically set to ON.
606 **SD MONI O SEL**	**For selecting the SD SDI or MONITOR output signal.** **0000 MONI:** : The MONITOR signal is output. **0001 SDI:** The same video signal as the one output from the SD SDI OUT1 connector is output **<Note>** When 1 (SDI) is selected, the time code and other information are not superimposed on the display.
620*4 **DOWNCON MODE**	**For selecting the picture frame during down-conversion.** **0000 FIT_V:** Side cut mode **0001 FIT_H:** Letter box mode **0002 FIT_HV:** Squeeze mode **0003 14:9:** Semi letter box 14:9 **0004 13:9:** Semi letter box 13:9
621*5 **UPCON MODE**	**For selecting the picture frame during up-conversion.** **0000 FIT_V:** Side panel mode **0001 FIT_H:** Top and bottom cut in vertical direction **0002 FIT_HV:** Stretch mode
622 **D/C RESP H**	**For selecting the horizontal frequency band during down-conversion and line conversion (1080i ←→ 720p).** **0000 WIDE** **0001 STD**
623 **D/C RESP V**	**For selecting the vertical frequency band during down-conversion and line conversion (1080i ←→ 720p).** **0000 WIDE** **0001 STD**
624*5 **U/C RESP H**	**For selecting the horizontal frequency band during up-conversion and line conversion.** **0000 STD** **0001 NARROW**
625*5 **U/C RESP V**	**For selecting the vertical frequency band during up-conversion and line conversion.** **0000 STD** **0001 NARROW**
626 **D/C ENH H**	**For accentuating the horizontal contours during down-conversion and line conversion (1080i ←→ 720p).** **0000 0dB** **0001 +0.7dB** **0002 +1dB** **0003 +1. 2dB** **0004 +1.5dB** **0005 +2dB** **<Note>** The numbers on the superimposed display are approximations only.

<VIDEO> (continued)

No./Item	Description of setting
627 **D/C ENH V**	**For accentuating the vertical contours during down-conversion and line conversion (1080i ←→ 720p).** **0000** 0dB **0001** +0.7dB **0002** +1dB **0003** +1.2dB **0004** +1.5dB **0005** +2dB **<Note>** The numbers on the superimposed display are approximations only.
628*5 **U/C ENH H**	**For accentuating the horizontal contours during up-conversion.** **0000** 0dB **0001** +0.7dB **0002** +1dB **0003** +1.2dB **0004** +1.5dB **0005** +2dB **<Note>** The numbers on the superimposed display are approximations only.
629*5 **U/C ENH V**	**For accentuating the vertical contours during up-conversion.** **0000** 0dB **0001** +0.7dB **0002** +1dB **0003** +1.2dB **0004** +1.5dB **0005** +2dB **<Note>** The numbers on the superimposed display are approximations only.
630*2 **1080i→HD_ OUT**	**For selecting the HD output signal format during 1080i tape playback or in the 1080i EE mode.** (See table below.) **0000** 1080i **0001** 720p **0002** 1080i
631*2 **1080i→SD_ OUT**	**For selecting the SD output signal format during 1080i tape playback or in the 1080i EE mode.** (See table below.) **0000** 480i **0001** -------- **0002** 480p **<Note>** There is no output in the 60 Hz mode.

	Output connectors		
	HD SDI OUT	**SD SDI OUT**	**VIDEO OUT**
0000	1080i (no conversion)	480i (down-converted output)	480i (down-converted output)
0001	720p (line-converted output)	480i (down-converted output)	480i (down-converted output)
0002	1080i (no conversion)	480p* (down-converted output)	480i (down-converted output)

No./Item	Description of setting
632*2 **720p→HD_ OUT**	**For selecting the HD output signal format during 720p tape playback or in the 720p EE mode.** (See table below.) **0000** 1080i **0001** 720p **0002** 720p
633*2 **720p→SD_ OUT**	**For selecting the SD output signal format during 720p tape playback or in the 720p EE mode.** (See table below.) **0000** -------- **0001** 480i **0002** 480p **<Note>** There is no output in the 60 Hz mode.

	Output connectors		
	HD SDI OUT	**SD SDI OUT**	**VIDEO OUT**
0000	1080i (line-converted output)	480i (down-converted output)	480i (down-converted output)
0001	720p (no conversion)	480i (down-converted output)	480i (down-converted output)
0002	720p (no conversion)	480p* (down-converted output)	480i (down-converted output)

634*2 **480p→HD_ OUT**	**For selecting the HD output signal format during 480p tape (DVCPRO50P) playback.** (See table below.) **0000** 1080i **0001** 720p **0002** ---------
635*2 **480p→SD_ OUT**	**For selecting the SD output signal format during 480p tape (DVCPRO50P) playback.** (See table below.) **0000** 480p **0001** 480p **0002** 480i

	Output connectors		
	HD SDI OUT	**SD SDI OUT**	**VIDEO OUT**
0000	1080i (up-converted output)	480p* (no conversion)	480i (down-converted output)
0001	720p (up-converted output)	480p* (no conversion)	480i (down-converted output)
0002	Muted	480i (down-converted output)	480i (down-converted output)

<Note>
During SD tape playback, the VTR cannot be operated in the 60 Hz mode.

*1: This item is not displayed when the 23/24 Hz, 25 Hz (HD or SD) or 50 Hz mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.
*2: This item is not displayed when the 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.
* Setup menu item No.107 and INPUT CHECK do not function, and the same signal as this signal line is output.

The underlining (__) denotes the factory setting mode.

<VIDEO> (continued)

No./Item	Description of setting
636*2 **480i→HD_OUT**	**For selecting the HD output signal format during 480i tape (DVCPRO50, DVCPRO, DV or DVCAM) playback.** (See table below.) **0000 1080i** **0001 720p** **0002 ---------**
637*2 **480i→SD_OUT**	**For selecting the SD output signal format during 480i tape (DVCPRO50, DVCPRO, DV or DVCAM) playback.** (See table below.) **0000 480i** **0001 480i** **0002 480p**

	Output connectors		
	HD SDI OUT	**SD SDI OUT**	**VIDEO OUT**
0000	1080i (up-converted output)	480i (no conversion)	480i (no conversion)
0001	720p (up-converted output)	480i (no conversion)	480i (no conversion)
0002	Muted	480p* (up-converted output)	480i (no conversion)

<Note>
During SD tape playback, the VTR cannot be operated in the 60 Hz mode.

638*1 **IN U/C MODE**	**For selecting the up-conversion picture frame when SD SDI input signals are supplied.** **0000 FIT_V:** Side panel mode **0001 FIT_H:** Top and bottom cut in vertical direction **0002 FIT_HV:** Stretch mode
639*1 **I U/C RESP H**	**For selecting the horizontal frequency band during the up-conversion of SD SDI input signals.** **0000 STD** **0001 NARROW**
640*1 **I U/C RESP V**	**For selecting the vertical frequency band during the up-conversion of SD SDI input signals.** **0000 STD** **0001 NARROW**

*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.
*2: This item is not displayed when the 23/24 Hz, 25 Hz (HD or SD) or 50 Hz mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.
*3: This item is not displayed when the 50 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.
* Setup menu item No.107 and INPUT CHECK do not function, and the same signal as this signal line is output.

<Note>
Setup menu items No.638, 639, 640, 641 and 642 do not function when the AJ-UC1700G optional board has not been installed.

The underlining (__) denotes the factory setting mode.
***UP: With HD output (HD tape playback or up-converted output)**
***DW: With SD output (SD tape playback or down-converted output)**

No./Item	Description of setting
641*2 **I U/C ENH H**	**For accentuating the horizontal contours during up-conversion of SD SDI input signals.** **0000 0dB** **0001 +0.7dB** **0002 +1dB** **0003 +1.2dB** **0004 +1.5dB** **0005 +2dB** **<Note>** The numbers on the superimposed display are approximations only.
642*2 **I U/C ENH V**	**For accentuating the vertical contours during up-conversion of SD SDI input signals.** **0000 0dB** **0001 +0.7dB** **0002 +1dB** **0003 +1.2dB** **0004 +1.5dB** **0005 +2dB** **<Note>** The numbers on the superimposed display are approximations only.
650 **STYLE**	**0000* CMPNT*:** Level adjustment mode for the component style **0001 CMPST:** Level adjustment mode for the composite style *** The asterisk denotes the factory setting for AJ-HD1700E.**
651*3 **HUE STYLE (SD)*DW**	**For selecting the rotational axis of the chroma phase adjustment.** **0000 Pb-Pr:** The axis rotates in a perfect circle on the SDI (component style) vectorscope. **0001 U-V:** The axis rotates in a perfect circle on the analog (composite style) vectorscope.
653 **Y LVL (HD)*UP**	**For adjusting the Y level of the HD SDI output. (−∞ to 0 dB to +3 dB)** **0000 0.0%** **: :** **1000 100.0%** **: :** **1413 141.3%** **<Note>** This setting takes effect when "CMPNT" has been selected as the setup menu item No.650 setting.
654 **Pb LVL (HD)*UP**	**For adjusting the PB level of the HD SDI output. (−∞ to 0 dB to +3 dB)** **0000 0.0%** **: :** **1000 100.0%** **: :** **1413 141.3%** **<Note>** This setting takes effect when "CMPNT" has been selected as the setup menu item No.650 setting.
655 **Pr LVL (HD)*UP**	**For adjusting the PB level of the HD SDI output. (−∞ to 0 dB to +3 dB)** **0000 0.0%** **: :** **1000 100.0%** **: :** **1413 141.3%** **<Note>** This setting takes effect when "CMPNT" has been selected as the setup menu item No.650 setting.
656 **BK LVL (HD)*UP**	**For adjusting the black level of the HD SDI output.** **50 −10.0%** **: :** **150 0.0%** **: :** **250 +10.0%** **<Note>** This setting takes effect when "CMPNT" has been selected as the setup menu item No.650 setting.

<VIDEO> (continued)

No./Item	Description of setting
658 **Y LVL (SD)*DW**	**For adjusting the Y level of the SD SDI output and VIDEO output.** **(−∞ to 0 dB to +3 dB)** **0000 0.0%** **: :** **<Note>** **1000 100.0%** This setting takes effect when **: :** "CMPNT" has been selected as the **1413 141.3%** setup menu item No.650 setting.
659 **Pb LVL (SD)*DW**	**For adjusting the PB level of the SD SDI output and VIDEO output.** **(−∞ to 0 dB to +3 dB)** **0000 0.0%** **: :** **<Note>** **1000 100.0%** This setting takes effect when **: :** "CMPNT" has been selected as the **1413 141.3%** setup menu item No.650 setting.
660 **Pr LVL (SD)*DW**	**For adjusting the PR level of the SD SDI output and VIDEO output.** **(−∞ to 0 dB to +3 dB)** **0000 0.0%** **: :** **<Note>** **1000 100.0%** This setting takes effect when **: :** "CMPNT" has been selected as the **1413 141.3%** setup menu item No.650 setting.
661 **BK LVL (SD)*DW**	**For adjusting the black level of the SD SDI output and VIDEO output.** **50 −10.0%** **: :** **<Note>** **150 0.0%** This setting takes effect when **: :** "CMPNT" has been selected as the **250 +10.0%** setup menu item No.650 setting.
662 **V LEVEL**	**For adjusting the video level of the HD SDI output, SD SDI output and VIDEO output.** **(−∞ to 0 dB to +6 dB)** **0000 0.0%** **: :** **<Note>** **1000 100.0%** This setting takes effect when **: :** "CMPST" has been selected as the **2000 200.0%** setup menu item No.650 setting.
663 **C LEVEL**	**For adjusting the chroma level of the HD SDI output, SD SDI output and VIDEO output.** **(−∞ to 0 dB to +3 dB)** **0000 0.0%** **: :** **<Note>** **1000 100.0%** This setting takes effect when **: :** "CMPST" has been selected as the **1413 141.3%** setup menu item No.650 setting.

*** This is the name of the menu item for AJ-HD1700E.**

The underlining (__) denotes the factory setting mode.
***DW: With SD output (SD tape playback or down-converted output)**

No./Item	Description of setting
664 **HUE (C PHASE*)**	**For adjusting the chroma phase of the HD SDI output, SD SDI output and VIDEO output.** **(Approx. −30° to + 30°)** **0000 −31.0** **: :** **<Note>** **0062 0.0** This setting takes effect when **: :** "CMPST" has been selected as the **0124 31.0** setup menu item No.650 setting. **<Note>** If 0 (50) or 3 [25 (HD)] or 4 [25 (SD)] has been selected as the system menu item No.25 (SYSTEM FREQ) setting: • The HD SDI output cannot be adjusted. • The SD SDI output and video output can be adjusted only when an SD format tape is being created.
665 **SETUP LVL (BK LVL*)**	**For adjusting the setup (black*) level of the HD SDI output, SD SDI output and VIDEO output.** **(−10% to +10%)** **50 −10.0%** **: :** **<Note>** **150 0.0%** This setting takes effect when **: :** "CMPST" has been selected as the **250 +10.0%** setup menu item No.650 setting.
670 **BRIGHT**	**For adjusting the brightness of the LCD monitor on the front panel.** **0 −127** **: :** **127 0** **: :** **254 127**
671 **R-BRIGHT**	**For adjusting the brightness (red) of the LCD monitor on the front panel.** **0 −127** **: :** **127 0** **: :** **254 127**
672 **B-BRIGHT**	**For adjusting the brightness (blue) of the LCD monitor on the front panel.** **0 −127** **: :** **127 0** **: :** **254 127**
673 **CONTRAST**	**For adjusting the contrast of the LCD monitor on the front panel.** **0 −127** **: :** **127 0** **: :** **254 127**
674 **R-CONTRAST**	**For adjusting the contrast (red) of the LCD monitor on the front panel.** **0 −127** **: :** **127 0** **: :** **254 127**

<VIDEO> (continued)

No./Item	Description of setting
675 **B-CONTRAST**	**For adjusting the contrast (blue) of the LCD monitor on the front panel.** 0 −127 : : 127 0 : : 254 127
676*3 **BLK CLIP**	**This function clips the signals below the pedestal level for SD SDI OUT and composite OUT Y (luminance) signals.** 0000 OFF: The signals are not clipped. 0001 ON: The signals are clipped.
680*2 **CC (F1) BLANK*DW**	**For selecting ON or OFF for the closed caption signals in the first field.** 0000 BLANK: The signals are forcibly blanked. 0001 THRU: The signals are not blanked.
681*2 **CC (F2) BLANK*DW**	**For selecting ON or OFF for the closed caption signals in the second field.** 0000 BLANK: The signals are forcibly blanked. 0001 THRU: The signals are not blanked.
682 **VO SETUP (HD)*UP** **(This menu is not displayed for AJ-HD1700E.)**	**This selects the composite output signal in HD mode.** 0000 THRU: The signal is output with no setup added. 0001 ADD22L: The signal is output from line 22 with a 7.5% setup added. 0002 ADD21L: The signal is output from line 21 with a 7.5% setup added. 0002 ADD20L: The signal is output from line 20 with a 7.5% setup added.
683 **VO SETUP (SD)*DW** **(This menu is not displayed for AJ-HD1700E.)**	**This selects the composite output signal in SD mode.** 0000 THRU: The signal is output with no setup added. 0001 ADD22L: The signal is output from line 22 with a 7.5% setup added. 0002 ADD21L: The signal is output from line 21 with a 7.5% setup added. 0002 ADD20L: The signal is output from line 20 with a 7.5% setup added.
684 **EDH (SD)*DW**	**For selecting whether to superimpose EDH on the serial output signals.** 0000 OFF: EDH is not superimposed. 0001 ON: EDH is superimposed.
685*2 **ESR MODE (SD)*DW**	**For selecting the operation mode for edge subcarrier reduction (ESR) in the playback circuit.** 0000 OFF: ESR is forcibly set to OFF. 0001 AUTO: ESR is automatically set to ON or OFF in accordance with the VTR operation.
686*2 **CCR MODE (SD)*DW**	**For selecting the cross color processing during playback.** 0000 OFF: The cross color is output as is. 0001 ON: The cross color can be reduced.
687*4 **SDI INDEX 0 *DW**	**For selecting whether to superimpose the VIDEO INDEX signal on the SD SDI output signal.** 0000 OFF: The VIDEO INDEX signal is not superimposed on the SD SDI output signal. 0001 ON: The VIDEO INDEX signal is superimposed on the SD SDI output signal.

No./Item	Description of setting
688*2 **CC REC**	**For selecting whether to record the closed caption signals which are superimposed on the SD input signal.** 0000 OFF: The closed caption signals are not recorded on the tape. 0001 ON: The closed caption signals are recorded on the tape if they are superimposed on the SD input signal. In this case, they are blanked, up-converted and then recorded. **<Notes>** • When SDTI has been selected as the input signal, the closed caption data superimposed on the compressed input signals is recorded on the tape in its original form regardless of this menu item's setting. • Setup menu item No.688 does not function when the AJ-UC1700G optional board has not been installed.
695*1 **BLANK LINE**	**For selecting ON or OFF for blanking for the vertical blanking period of the video signals during SD tape playback.** 0000 BLANK: All the lines are forcibly blanked. 0001 THRU: None of the lines are blanked. 0002 MANU: Blanking ON or OFF is selected on a line-by-line basis. **<Note>** When 2 (MANU) is set and the SHIFT button is pressed, the display transfers to the submenu screen where the ON or OFF can be set for each line. Press the SHIFT button again to return the display from the submenu screen.
Submenu screen <59/60 Hz>	
01 LINE 11&274 : : : : 12 LINE 22&285	0000 BLANK: The lines are forcibly blanked. 0001 THRU: The lines are not blanked.
Submenu screen <50Hz>	
00 LINE 7&320 : : : : 15 LINE 22&335	0000 BLANK: The lines are forcibly blanked. 0001 THRU: The lines are not blanked

*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

*2: This item is not displayed when the 23/24 Hz, 25 Hz (HD or SD) or 50 Hz mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

*3: This item is not displayed when the 50 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

*4: This item is not displayed when the 23/24 Hz or 25 Hz (HD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

The underlining (__) denotes the factory setting mode.

***UP: With HD output (HD tape playback or up-converted output)**

***DW: With SD output (SD tape playback or down-converted output)**

<AUDIO>

No./Item	Description of setting
700*1 CH1 IN LV	For selecting the audio input (CH1) reference level. 0000 4dB 0001 0dB 0002 −20dB
701*1 CH2 IN LV	For selecting the audio input (CH2) reference level. 0000 4dB 0001 0dB 0002 −20dB
702*1 CH3 IN LV	For selecting the audio input (CH3) reference level. 0000 4dB 0001 0dB 0002 −20dB
703*1 CH4 IN LV	For selecting the audio input (CH4) reference level. 0000 4dB 0001 0dB 0002 −20dB
704*1 CUE IN LV	For selecting the CUE input reference level. 0000 4dB 0001 0dB 0002 −20dB 0003 −60dB
705 CH1 OUT LV	For selecting the audio output (CH1) reference level. 0000 4dB 0001 0dB 0002 −20dB
706 CH2 OUT LV	For selecting the audio output (CH2) reference level. 0000 4dB 0001 0dB 0002 −20dB
707 CH3 OUT LV	For selecting the audio output (CH3) reference level. 0000 4dB 0001 0dB 0002 −20dB
708 CH4 OUT LV	For selecting the audio output (CH4) reference level. 0000 4dB 0001 0dB 0002 −20dB
709 CUE OUT LV	For selecting the CUE output reference level. 0000 4dB 0001 0dB 0002 −20dB

No./Item	Description of setting
710 MONIL OUT LV	For selecting the audio monitor output (Lch) reference level. 0000 4dB 0001 0dB 0002 −20dB
711 MONIR OUT LV	For selecting the audio monitor output (Rch) reference level. 0000 4dB 0001 0dB 0002 −20dB
712 MONI OUT	For selecting the audio monitor output UNITY or VARIABLE level. 0000 UNITY: The signals are output at a fixed level. 0001 VAR: The signal output is coupled with the headphones volume control.
713*1 CH1 IN SEL	For selecting the CH1 input signal. 0000 INT SG: The internal signal is selected. 0001 DIGI: Digital input signals are selected. 0002 ANA: Analog input signals are selected. <Note> When DIGI has been selected, whether serial or AES is selected for the input is determined by the setting selected for setup menu item No.721 (D IN SEL 12).
714*1 CH2 IN SEL	For selecting the CH2 input signal. 0000 INT SG: The internal signal is selected. 0001 DIGI: Digital input signals are selected. 0002 ANA: Analog input signals are selected. <Note> When DIGI has been selected, whether serial or AES is selected for the input is determined by the setting selected for setup menu item No.721 (D IN SEL 12).
715*1 CH3 IN SEL	For selecting the CH3 input signal. 0000 INT SG: The internal signal is selected. 0001 DIGI: Digital input signals are selected. 0002 ANA: Analog input signals are selected. <Note> When DIGI has been selected, whether serial or AES is selected for the input is determined by the setting selected for setup menu item No.722 (D IN SEL 34).
716*1 CH4 IN SEL	For selecting the CH4 input signal. 0000 INT SG: The internal signal is selected. 0001 DIGI: Digital input signals are selected. 0002 ANA: Analog input signals are selected. <Note> When DIGI has been selected, whether serial or AES is selected for the input is determined by the setting selected for setup menu item No.722 (D IN SEL 34).

*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

The underlining (__) denotes the factory setting mode.

<AUDIO> (continued)

No./Item	Description of setting
717*1 **CH5 IN SEL**	**For selecting the CH5 input signal.** **0000 INT SG:** The internal signal is selected. **0001 DIGI:** Digital input signals are selected. **0002 ANA:** Analog input signals are selected. (CH1 input) **<Note>** When DIGI has been selected, whether serial or AES is selected for the input is determined by the setting selected for setup menu item No.723 (D IN SEL 56).
718*1 **CH6 IN SEL**	**For selecting the CH6 input signal.** **0000 INT SG:** The internal signal is selected. **0001 DIGI:** Digital input signals are selected. **0002 ANA:** Analog input signals are selected. (CH2 input) **<Note>** When DIGI has been selected, whether serial or AES is selected for the input is determined by the setting selected for setup menu item No.723 (D IN SEL 56).
719*1 **CH7 IN SEL**	**For selecting the CH7 input signal.** **0000 INT SG:** The internal signal is selected. **0001 DIGI:** Digital input signals are selected. **0002 ANA:** Analog input signals are selected. (CH3 input) **<Note>** When DIGI has been selected, whether serial or AES is selected for the input is determined by the setting selected for setup menu item No.724 (D IN SEL 78).
720*1 **CH8 IN SEL**	**For selecting the CH8 input signal.** **0000 INT SG:** The internal signal is selected. **0001 DIGI:** Digital input signals are selected. **0002 ANA:** Analog input signals are selected. (CH4 input) **<Note>** When DIGI has been selected, whether serial or AES is selected for the input is determined by the setting selected for setup menu item No.724 (D IN SEL 78).
721*1 **D IN SEL12**	**For selecting the CH1 and CH2 digital input signals.** **0000 AES:** AES/EBU **0001 SDI:** Serial
722*1 **D IN SEL34**	**For selecting the CH3 and CH4 digital input signals.** **0000 AES:** AES/EBU **0001 SDI:** Serial
723*1 **D IN SEL56**	**For selecting the CH5 and CH6 digital input signals.** **0000 AES:** AES/EBU **0001 SDI:** Serial
724*1 **D IN SEL78**	**For selecting the CH7 and CH8 digital input signals.** **0000 AES:** AES/EBU **0001 SDI:** Serial

No./Item	Description of setting
725*1 **REC CH1**	**For selecting the input signals to be recorded on the audio CH1 track.** **0000 CH1:** Audio input CH1 signals **0001 CH2:** Audio input CH2 signals **0002 CH3:** Audio input CH3 signals **0003 CH4:** Audio input CH4 signals **0004 CH1+2:** Audio input CH1 and CH2 mixed signals **0005 CH3+4:** Audio input CH3 and CH4 mixed signals
726*1 **REC CH2**	**For selecting the input signals to be recorded on the audio CH2 track.** **0000 CH1:** Audio input CH1 signals **0001 CH2:** Audio input CH2 signals **0002 CH3:** Audio input CH3 signals **0003 CH4:** Audio input CH4 signals **0004 CH1+2:** Audio input CH1 and CH2 mixed signals **0005 CH3+4:** Audio input CH3 and CH4 mixed signals
727*1 **REC CH3**	**For selecting the input signals to be recorded on the audio CH3 track.** **0000 CH1:** Audio input CH1 signals **0001 CH2:** Audio input CH2 signals **0002 CH3:** Audio input CH3 signals **0003 CH4:** Audio input CH4 signals **0004 CH1+2:** Audio input CH1 and CH2 mixed signals **0005 CH3+4:** Audio input CH3 and CH4 mixed signals
728*1 **REC CH4**	**For selecting the input signals to be recorded on the audio CH4 track.** **0000 CH1:** Audio input CH1 signals **0001 CH2:** Audio input CH2 signals **0002 CH3:** Audio input CH3 signals **0003 CH4:** Audio input CH4 signals **0004 CH1+2:** Audio input CH1 and CH2 mixed signals **0005 CH3+4:** Audio input CH3 and CH4 mixed signals
729*1 **REC CH5**	**For selecting the input signals to be recorded on the audio CH5 track.** **0000 CH5:** Audio input CH5 signals **0001 CH6:** Audio input CH6 signals **0002 CH7:** Audio input CH7 signals **0003 CH8:** Audio input CH8 signals **0004 CH5+6:** Audio input CH5 and CH6 mixed signals **0005 CH7+8:** Audio input CH7 and CH8 mixed signals

*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

The underlining (__) denotes the factory setting mode.

<AUDIO> (continued)

No./Item	Description of setting
730*1 **REC CH6**	**For selecting the input signals to be recorded on the audio CH6 track.** **0000 CH5:** Audio input CH5 signals **0001 CH6:** Audio input CH6 signals **0002 CH7:** Audio input CH7 signals **0003 CH8:** Audio input CH8 signals **0004 CH5+6:** Audio input CH5 and CH6 mixed signals **0005 CH7+8:** Audio input CH7 and CH8 mixed signals
731*1 **REC CH7**	**For selecting the input signals to be recorded on the audio CH7 track.** **0000 CH5:** Audio input CH5 signals **0001 CH6:** Audio input CH6 signals **0002 CH7:** Audio input CH7 signals **0003 CH8:** Audio input CH8 signals **0004 CH5+6:** Audio input CH5 and CH6 mixed signals **0005 CH7+8:** Audio input CH7 and CH8 mixed signals
732*1 **REC CH8**	**For selecting the input signals to be recorded on the audio CH8 track.** **0000 CH5:** Audio input CH5 signals **0001 CH6:** Audio input CH6 signals **0002 CH7:** Audio input CH7 signals **0003 CH8:** Audio input CH8 signals **0004 CH5+6:** Audio input CH5 and CH6 mixed signals **0005 CH7+8:** Audio input CH7 and CH8 mixed signals
733*1 **REC CUE**	**For selecting the input signals to be recorded on the CUE track.** **0000 CUE:** CUE IN **0001 CH1:** Audio input CH1 signals **0002 CH2:** Audio input CH2 signals **0003 CH3:** Audio input CH3 signals **0004 CH4:** Audio input CH4 signals **0005 CH5:** Audio input CH5 signals **0006 CH6:** Audio input CH6 signals **0007 CH7:** Audio input CH7 signals **0008 CH8:** Audio input CH8 signals **0009 CH1+2:** Audio input CH1 and CH2 mixed signals **0010 CH3+4:** Audio input CH3 and CH4 mixed signals **0011 CH5+6:** Audio input CH5 and CH6 mixed signals **0012 CH7+8:** Audio input CH7 and CH8 mixed signals **0013 CH1−8:** Audio input CH1 to CH8 mixed signals

No./Item	Description of setting
734*1 **PB FADE**	**For selecting how to process the audio edit points (IN points and OUT points) during playback.** **0000 AUTO:** The status established during recording is followed. **0001 CUT:** Forcibly cut **0002 FADE:** Forcibly faded
735 **HD EMBD AUD**	**For selecting whether to superimpose the audio data on the HD serial output.** **0000 OFF:** The audio data is not superimposed. **0001 ON:** The audio data is superimposed.
736 **SD EMBD AUD**	**For selecting whether to superimpose the audio data on the SD serial output.** **0000 OFF:** The audio data is not superimposed. **0001 ON:** The audio data is superimposed.
737 **MONI MIX**	**For selecting the mixed signals for the headphone monitor (Lch and/or Rch).** **0000 OFF:** Neither the Lch nor Rch signals are mixed. **0001 L:** Only the Lch signals are mixed. **0002 R:** Only the Rch signals are mixed. **0003 L/R:** Both the Lch and Rch signals are mixed. **<Notes>** • At the OFF setting, the signals to be output to monitor L (or monitor R) are switched to CH1, CH2, CH3 and so on each time the “L” or “R” button is pressed. The selected signals are displayed below the audio level meter. • At the L, R or L/R setting, the signals of a multiple number of channels can be mixed and output. When the number key corresponding to the channel whose signals are to be monitored is pressed while the “L” (or “R”) button is held down, that channel is selected. The selected channel is displayed below the audio level meter. (Alternatively, the same steps can be taken to de-select a channel which has already been selected.) However, only up to 2 channels among the CH1-CH4 channels and up to 2 channels among the CH5 to CH8 channels can be selected.
738 **CH1 CUE SEL**	**For selecting the CH1 output status of the main signal line in the search mode.** **0000 OFF:** The CUE signal is not output. **0001 ON:** The CUE signal is output. **<Note>** For details on the audio output statuses, refer to “Audio outputs in the search mode” on page 103.

*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

The underlining (__) denotes the factory setting mode.

<AUDIO> (continued)

No./Item	Description of setting
739 CH2 CUE SEL	**For selecting the CH2 output status of the main signal line in the search mode.** **0000 OFF:** The CUE signal is not output. **0001 ON:** The CUE signal is output. **<Note>** For details on the audio output statuses, refer to “Audio outputs in the search mode” on page 103.
740 CH3 CUE SEL	**For selecting the CH3 output status of the main signal line in the search mode.** **0000 OFF:** The CUE signal is not output. **0001 ON:** The CUE signal is output. **<Note>** For details on the audio output statuses, refer to “Audio outputs in the search mode” on page 103.
741 CH4 CUE SEL	**For selecting the CH4 output status of the main signal line in the search mode.** **0000 OFF:** The CUE signal is not output. **0001 ON:** The CUE signal is output. **<Note>** For details on the audio output statuses, refer to “Audio outputs in the search mode” on page 103.
742 CH5 CUE SEL	**For selecting the CH5 output status of the main signal line in the search mode.** **0000 OFF:** The CUE signal is not output. **0001 ON:** The CUE signal is output. **<Note>** For details on the audio output statuses, refer to “Audio outputs in the search mode” on page 103.
743 CH6 CUE SEL	**For selecting the CH6 output status of the main signal line in the search mode.** **0000 OFF:** The CUE signal is not output. **0001 ON:** The CUE signal is output. **<Note>** For details on the audio output statuses, refer to “Audio outputs in the search mode” on page 103.
744 CH7 CUE SEL	**For selecting the CH7 output status of the main signal line in the search mode.** **0000 OFF:** The CUE signal is not output. **0001 ON:** The CUE signal is output. **<Note>** For details on the audio output statuses, refer to “Audio outputs in the search mode” on page 103.

No./Item	Description of setting
745 CH8 CUE SEL	**For selecting the CH8 output status of the main signal line in the search mode.** **0000 OFF:** The CUE signal is not output. **0001 ON:** The CUE signal is output. **<Note>** For details on the audio output statuses, refer to “Audio outputs in the search mode” on page 103.
746 MONI CH SEL	**For selecting the monitor output.** **0000 MANU:** The signal selected by the MONITOR SELECT button is output. **0001 AUTO:** The PCM audio signal is output in the −1.0× to +2.0× speed range; the CUE signal is automatically output at all other speeds. **0002 PCM:** The PCM audio signal is output in the −32× to +32× speed range. **<Notes>** • When “AUTO” is selected and a tape in any format except DVCPRO HD-LP is played back, the PCM audio signals are output in the -1.0× to +1.1× speed range. • This setting takes effect when the L and R MONITOR SELECT switches on the VTR’s front panel have selected a channel from CH1 to CH8. (If they have selected CUE, the CUE signal is output at all speeds regardless of this menu item’s setting.)
747 MON AUTO SEL	**For selecting the channel for the monitor output to be switched to CUE.** When a setting other than “MANU” has been selected for setup menu item No.746 (MONI CH SEL), the CUE signal is automatically output to the monitor output in accordance with the operation mode, and the monitor channel to be switched to CUE is selected automatically. **0000 L/R:** The CUE signal is output both to the Lch and Rch. **0001 L:** The CUE signal is output to the Lch only. **0002 R:** The CUE signal is output to the Rch only.
748 MONI SEL INH	**For selecting whether to enable or inhibit the operation of the MONITOR SELECT button on the front panel.** **0000 OFF:** The button’s operation is enabled. **0001 ON:** The button’s operation is inhibited. **0002 ON1:** In the FULL display mode, operation is prohibited; in the FINE display mode only, operation is enabled. **<Note>** Whether to enable or inhibit the button’s operation can be selected for channels whose signals have not been mixed by the setup menu item No.737 (MONI MIX) setting.

The underlining (__) denotes the factory setting mode.

<AUDIO> (continued)

No./Item	Description of setting
749*1 **AUDIO PB VR**	**For selecting whether the playback level adjustment controls are to function in the EE mode when INT SG has been selected on the <AUDIO> function menu.** **0000 DIS:** The INT SG output level is fixed at the UNITY level. **0001 ENA:** The INT SG output level can be varied using the playback level adjustment controls.
750 **ANA CH1 SEL**	**For selecting the signal to be output to analog output CH1.** **0000 CH1:** The CH1 signal is output. **0001 CH5:** The CH5 signal is output
751 **ANA CH2 SEL**	**For selecting the signal to be output to analog output CH2.** **0000 CH2:** The CH2 signal is output. **0001 CH6:** The CH6 signal is output.
752 **ANA CH3 SEL**	**For selecting the signal to be output to analog output CH3.** **0000 CH3:** The CH3 signal is output. **0001 CH7:** The CH7 signal is output.
753 **ANA CH4 SEL**	**For selecting the signal to be output to analog output CH4.** **0000 CH4:** The CH4 signal is output. **0001 CH8:** The CH8 signal is output.
754 **SD SDI CH1 SL**	**For selecting the audio CH1 signal to be superimposed onto the SD SDI output.** **0000 CH1:** The CH1 signal is output. **0001 CH2:** The CH2 signal is output. **0002 CH3:** The CH3 signal is output. **0003 CH4:** The CH4 signal is output. **0004 CH5:** The CH5 signal is output. **0005 CH6:** The CH6 signal is output. **0006 CH7:** The CH7 signal is output. **0007 CH8:** The CH8 signal is output.
755 **SD SDI CH2 SL**	**For selecting the audio CH2 signal to be superimposed onto the SD SDI output** **0000 CH1:** The CH1 signal is output. **0001 CH2:** The CH2 signal is output. **0002 CH3:** The CH3 signal is output. **0003 CH4:** The CH4 signal is output. **0004 CH5:** The CH5 signal is output. **0005 CH6:** The CH6 signal is output. **0006 CH7:** The CH7 signal is output. **0007 CH8:** The CH8 signal is output.
756 **SD SDI CH3 SL**	**For selecting the audio CH3 signal to be superimposed onto the SD SDI output** **0000 CH1:** The CH1 signal is output. **0001 CH2:** The CH2 signal is output. **0002 CH3:** The CH3 signal is output. **0003 CH4:** The CH4 signal is output. **0004 CH5:** The CH5 signal is output. **0005 CH6:** The CH6 signal is output. **0006 CH7:** The CH7 signal is output. **0007 CH8:** The CH8 signal is output.

*1: This item is not displayed when the 23/24 Hz or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

No./Item	Description of setting
757 **SD SDI CH4 SL**	**For selecting the audio CH4 signal to be superimposed onto the SD SDI output** **0000 CH1:** The CH1 signal is output. **0001 CH2:** The CH2 signal is output. **0002 CH3:** The CH3 signal is output. **0003 CH4:** The CH4 signal is output. **0004 CH5:** The CH5 signal is output. **0005 CH6:** The CH6 signal is output. **0006 CH7:** The CH7 signal is output. **0007 CH8:** The CH8 signal is output.
758 **JOG PROC**	**For selecting how to process the digital audio output slow signals in the JOG, VAR or SHTL mode.** **0000 OFF:** The sound without having the digital audio output slow signals processed is output even when the STILL mode is established. **0001 ON:** The sound after having the digital audio output slow signals processed is output.
759 **DV PB ATT**	**For selecting the audio output level during DV format playback.** **0000 OFF:** The audio output level is not attenuated. **0001 ON:** The audio output level is attenuated.
760*1 **REC PT MUTE**	**For selecting whether to mute the sound at the joins between recordings during DV or DVCAM format playback.** **0000 OFF:** The sound is not muted. **0001 ON:** The sound is muted.
761*1 **AUDIO INT SG**	**For selecting the type of internal signal.** **0000 TONE:** A sine wave signal is selected. **0001 SILNCE:** A silent signal is selected.
762 **AUD RATE CON**	**This item enables signals to be recorded and played back without passing them through the rate converter in the audio input/output section (without engaging the digital filter).** **0000 OFF:** The signals are recorded and played back without passing them through the rate converter. **0001 ON:** The signals are recorded and played back after passing them through the rate converter. **<Notes>** • ON/OFF control is exercised at the same time for both recording and playback. It cannot be set differently for recording or playback. • ON/OFF control is exercised at the same time for CH1 to CH8. ON or OFF cannot be set independently for each channel. • When the rate converter is set to OFF, the video input signals and AES (EBU) input signals must be synchronized. Moreover, the video input signals and reference signal selected by OUT REF must also be synchronized. (Noise may occur if these signals are not synchronized.) • In the 60 Hz mode, noise may occur if OFF is set for the rate converter.

The underlining (__) denotes the factory setting mode.

<AUDIO> (continued)

No./Item	Description of setting
763 **METER SCALE** **(This menu is not displayed for AJ-HD1700E.)**	**For selecting the scale display of the audio level meter.** **0000 PEAK_0:** [The audio level is displayed with 0 dB as the maximum level. **0001 REF_0:** The audio level is displayed with 0 dB as the reference level.
790*5 **CUE REC VOL**	**For adjusting the recording level of the CUE audio signal.** **(−∞ to 0 dB to +12 dB)** **0032 16** **: :** **0016 0** **: :** **0000 −16** **<Note>** This item is not displayed when the 23/24 Hz mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

No./Item	Description of setting
791 **CUE PB VOL**	**For adjusting the playback level of the CUE audio signal.** **(−∞ to 0 dB to +12 dB)** **0032 16** **: :** **0016 0** **: :** **0000 −16**

The underlining (__) denotes the factory setting mode.

Audio outputs in the search mode

The table below lists the signals which are output to the monitor and main signal line and which are determined by how the settings of menu items No.738 to No.745, and No.746 and No.747 are combined.

738 CH1 CUE SEL: : 745 CH8 CUE SEL	746 MONI CH SEL	747 MON AUTO SEL	Monitor output		Main signal line output	
			Lch	Rch	CH1/CH3/CH5/CH7	CH2/CH4/CH6/CH8
OFF	MANU	L/R	PC*1	PCM*1	PCM*1	PCM*1
		L				
		R				
	AUTO	L/R	CUE*2	CUE*2		
		L	CUE*2	PCM*1		
		R	PCM*1	CUE*2		
	PCM	L/R	PCM*3	PCM*3	PCM*4	PCM*4
		L				
		R				
ON	MANU	L/R	PCM*1	PCM*1	PCM*1	PCM*1
		L				
		R				
	AUTO	L/R	CUE*2	CUE*2	CUE*2	CUE*2
		L	CUE*2	PCM*1	CUE*2	PCM*1
		R	PCM*1	CUE*2	PCM*1	CUE*2
	PCM	L/R	PCM*3	PCM*3	PCM*3	PCM*3
		L				PCM*4
		R			PCM*4	PCM*3

<Notes>

*1: The PCM audio output is muted if the tape is played back at a speed in the −1.0× to +2.0× range (or at a speed in the −1.0× to +1.1× range for a format other than DVCPRO HD-LP).

*2: In the case of the CUE audio output, the PCM signals are output if the tape is played back at a speed in the−j1.0× to +2.0× range (or at a speed in the -1.0× to +1.1× range for a format other than DVCPRO HD-LP).

*3: During fast forwarding or rewinding, the CUE signal is output automatically.

*4: During fast forwarding or rewinding, this signal is muted.

*5: This item is not displayed when the 23/24 Hz mode or 25 Hz (HD or SD) mode has been selected as the system menu item No.25 (SYSTEM FREQ) setting.

<MENU>

No./Item	Description of setting
A02 **P. ON LOAD**	**This VTR is equipped with VTR MEMORY [C] for storing the current settings (*1) and VTR MEMORY [1] to [4] for backing up VTR MEMORY [C] . The data of a selected VTR MEMORY [1] to [4] can be loaded into VTR MEMORY [C] and operation started on the basis of this data when the power is turned on.** **0000 OFF:** Operation is started using the previous settings. **0001 USER1:** The VTR MEMORY [1] data is loaded and operation started on the basis of this data. **0002 USER2:** The VTR MEMORY [2] data is loaded and operation started on the basis of this data. **0003 USER3:** The VTR MEMORY [3] data is loaded and operation started on the basis of this data. **0004 USER4:** The VTR MEMORY [4] data is loaded and operation started on the basis of this data.

*1: The term “settings” here denotes all the settings of the setup menus, what is registered in the PF1/PF2 menus, and the contents of some of the function buttons.

The underlining (__) denotes the factory setting mode.

<Connections with Dolby-E* components>

When the VTR is to be connected to a Dolby-E encoder/decoder for recording or playing back Dolby-E data, set the audio input and output levels to UNITY, and select the following setup menu item settings.

No.303 AUD EDIT IN = CUT
No.304 AUD EDIT OUT = CUT
No.725 REC CH1 = CH1
No.726 REC CH2 = CH2
No.727 REC CH3 = CH3
No.728 REC CH4 = CH4
No.729 REC CH5 = CH5
No.730 REC CH6 = CH6
No.731 REC CH7 = CH7
No.732 REC CH8 = CH8
No.734 PB FADE = CUT
No.758 JOG PROC = OFF
No.762 AUD RATE CON = OFF

<Notes>

- Dolby-E data cannot be recorded or played back in the 60 Hz mode.
- Adjust the timing with the video signals to cover the time taken by the Dolby-E component for encoding/decoding outside the VTR.
- Set the bit depth of the Dolby-E encoder/decoder to 16 bits.
- Noise will be output from the ANALOG AUDIO OUT connectors of the channels through which the Dolby-E data is passing.
- The audio level meter will deflect beyond the range of its markings for those channels through which the Dolby-E data is passing.
- Noise will be output when a tape on which Dolby-E data has been recorded is played back in the JOG or VAR mode.

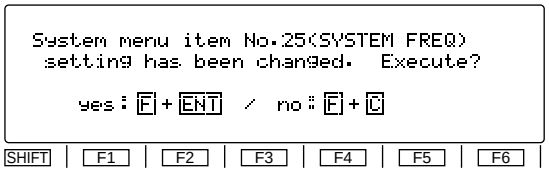
* Dolby and the Double D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

<How to switch the system frequency>

Follow the steps below to switch the system frequency (59/60 Hz, 50 Hz, 23/24 Hz, 25 Hz (HD) or 25 Hz(SD)).

1 Following the procedure for the <SETUP MENU/SYSTEM MENU> (page 60) to change the system menu item No.25 (SYSTEM FREQ) setting.

2 Press F5 (SET) to enter the setting, and after the function menu shown on the time code display area ⓮ has been cleared, the following message appears.



3 To make the setting entered in step 2 valid, press the ENT button while holding down the F button.
The system is restarted, and the VTR starts operating in the selected mode.

4 To cancel the setting entered in step 2, press the C button while holding down the F button.
The above message is cleared, and after the changed setting has been restored to the original system menu No.25 (SYSTEM FREQ) setting, operation returns to the SYSTEM menu operation screen.

<Note>
If the system menu No.25 (SYSTEM FREQ) setting has been changed while a cassette is inserted in the VTR, the cassette is automatically ejected.
The same procedure as above is also followed when the system menu No.25 (SYSTEM FREQ) setting has been changed by loading the data from an IC card in accordance with the <CARD> procedure (page 69).
Note that even if the change being made to the system menu item No. 25 setting is cancelled, other system menu items affected by the change will be updated, as will the associated file names.

<Selecting the recording/playback format and sync signals which support the operation mode>

No.25 SYSTEM FREQ	Format enabling recording	Format enabling playback	Sync signals
50/60	1080/59.94i (HD_LP) 1080/60.00i (HD_LP) 720/59.94p (HD_LP) 720/60.00p (HD_LP)	1080/59.94i (HD_LP, HD_SP) 1080/60i (HD_LP, HD_SP) 720/59.94p (HD_LP, HD_SP) 720/60.00p (HD_LP, HD_SP) 480/59.94p (480p) 480/59.94i (422, 411, DV, DVCAM)	HD_REF (59.94Hz, 60Hz) SD_REF (59.94Hz) The setting selected for setup menu item No.031 (OUT REF) applies.
50	1080/50i (HD_LP)	1080/50i (HD_LP, HD_SP) 576/50i (422, 411, DV, DVCAM) 576/25p over 50i (422, 411, DV)	HD_REF (50Hz) SD_REF (50Hz) The setting selected for setup menu item No.031 (OUT REF) applies.
23/24	None	720/23.98p over 59.94p (HD_SP/HD_SP) 720/24p over 60.00p (HD_SP/HD_SP) 480/23.98p over 59.94i [2:3 mode] 480/23.98p over 59.94i [2:3:3:2 advance mode]	HD_REF (47.96Hz, 48Hz)
25 (HD)	None	720/25p over 60p	HD_REF (50Hz) SD_REF (50Hz) The setting selected for setup menu item No.031 (OUT REF) applies.
25 (SD)	None	720/25p over 60p	SD_REF (50Hz)

<Menu management accompanying switching the system frequency>

The system menu and setup menu have some items whose settings differ and other items with which no selection options are displayed and whose settings are fixed (indicated by the shading in the table below), depending on the switching of the operation mode in response to the setting selected for system menu item No.25 (SYSTEM FREQ). (Refer to the table below.)

System menu and setup menu settings

- Each of the items whose settings differ is saved in the VTR MEMORY (current file and one of the backup files 1 to 4). The settings that correspond to each operation mode will be displayed so that the settings can be performed for each operation mode.

Registration of the <PF1> and <PF2> function buttons

- When the items whose settings differ have been registered in the <PF1> and <PF2> function buttons, the settings that correspond to each operation mode will be displayed so that the settings can be performed for each operation mode.
- If items, whose selection options are not displayed due to the operation mode, have been registered in the <PF1> or <PF2> function button, when an operation mode in which these options are not displayed is selected, what has been registered is saved but the function button itself will become blank and cannot be operated. Bear in mind, however, that when the data is registered again, it is saved by overwriting the existing data so that the previously registered data will be lost.

<50P IN/OUT> 50-pin connector registration

- When the items whose settings differ have been registered in the <50P IN/OUT> 50-pin connector pins, the settings corresponding to the operation modes are allocated to the IN and OUT pins on the basis of the setting numbers. However, when the upper limit value is exceeded, the value will be limited to this upper limit.
  What has been registered is saved, but bear in mind that when the data is registered again, it is saved by overwriting the existing data so that the previously registered data will be lost.
- If items, whose selection options are not displayed due to the operation mode, have been registered in the <50P IN/OUT> 50-pin connector, when an operation mode in which these options are not displayed is selected, what has been registered is saved but no operation is possible. Bear in mind, however, that when the data is registered again, it is saved by overwriting the existing data so that the previously registered data will be lost.

System menu

No.	Menu item		System menu No.25 (SYSTEM FREQ)				
			59/60	23/24	50	25 (HD)	25 (SD)
12	SYS H (HD)	COARSE	−5H to 0H to 5H	−5H to 0H to 5H	−5H to 0H to 5H		
		FINE	−1100 to 0 to 1100	−1375 to 0 to 1375	−1320 to 0 to 1320		
14	SYS SC (SD)		−108 to 0 to 108		−115 to 0 to 115		
15	VO SYS H (SD)	COARSE	−5H to 0H to 5H		−5H to 0H to 5H		
		FINE	−858 to 0 to 858		−864 to 0 to 864		
16	SD SYS D (SD)	COARSE	−5H to 0H to 5H		−5H to 0H to 5H		
		FINE	−858 to 0 to 858		−864 to 0 to 864		

Setup menus

No.	Menu item	System menu No.25 (SYSTEM FREQ)				
		59/60	23/24	50	25 (HD)	25 (SD)
109	CAP.LOCK	2F/4F	2F	2F/4F/8F	2F	2F
501	VITC POS-1	10L to 16L to 20L		7L to 11L to 22L		7L to 11L to 22L
502	VITC POS-2	10L to 18L to 20L		7L to 13L to 22L		7L to 13L to 22L
600	VIDEO IN SEL	INTSG HDSDI SDTI SDSDI		INTSG HDSDI SDSDI		

The underlining (__) denotes the factory setting mode.

(Continued on next page)

Setup menus

No.	Menu item	System menu No.25 (SYSTEM FREQ)				
		59/60	23/24	50	25 (HD)	25 (SD)
002	TAPE TIMER	±12h 24h		Same as for 59/60		
004	SYNCHRONIZE	OFF ON				
010	MONI CONTROL	MANU AUTO				
012	REC ADJUST	0s to 3s to 5s				
013	DET STOP	OFF ON				
014	DET ADJUST	−8f to 0f to 3s10f				
020	SYS FORMAT	1080i 720p	720p	1080i	720p	720p
030	HD FREQUENCY	59/23 60/24	Same as for 59/60		60/24	60/24
031	OUT REF	AUTO INPUT HD_REF SD_REF	HD_REF		Same as for 59/60	SD_REF
105	AUTO EE SEL	S/F/R STOP				
107	EE MODE SEL	NORMAL THRU				
111	MEMORY STOP	OFF ON				
113	REC INH	OFF ALL PRE NORMAL V/CTL	ALL		ALL	ALL
115	EJECT SW INH	REC OFF				
118	SP MODE INH	OFF ON		Same as for 59/60		
135	DET BEEP	OFF LOW HIGH				
140	OUTPUT	EE TAPE	TAPE		TAPE	TAPE
141	VOLUME	REC PB AUTO	PB		PB	PB
142	AUDIO UNITY	IN OUT IN/OUT	OUT		OUT	OUT
303	AUD EDIT IN	CUT FADE				
304	AUD EDIT OUT	CUT FADE				
306	CF ADJ SEL	PLAYER RECORDER				

The underlining (__) denotes the factory setting mode.

Setup menus

No.	Menu item	System menu No.25 (SYSTEM FREQ)				
		59/60	23/24	50	25 (HD)	25 (SD)
320	EDIT RPLCE1	N-DEF CH1 CH2 CH1+3		Same as for 59/60		
321	EDIT RPLCE2					
322	EDIT RPLCE3					
323	EDIT RPLCE4					
324	EDIT RPLCEC					
500	VITC BLANK	BLANK THRU	BLANK		BLANK	Same as for 59/60
503	TCG MODE	REGEN PRE AUTO	PRE		PRE	PRE
504	RUN MODE	REC FREE				
505	TCG REGEN	TC&UB TC UB				
506	REGEN MODE	AS&IN ASSEM INSRT				
507	TC SOURCE	INT EXT_L SLTC SVITC				
508	BINARY GP	000 to 111				
510	TCG CF FLAG	OFF ON				
511	DF MODE	DF NDF	NDF		NDF	NDF
512	TC OUT REF	V OUT TC IN		Same as for 59/60		
516	TC OUT ADV	OFF EDIT				
517	TCG OUT	MOMENT LATCH				
601	VIDEO INT SG	100%CB to EQ				
602	SDI IN MODE	DR OFF DR ON				
604	FREEZE SEL	FIELD FRAME				
605	INTERPOLATE	OFF AUTO	OFF		OFF	OFF
620	DOWNCON MODE	FIT_V FIT_H FIT_HV 14:9 13:9				Same as for 59/60
621	UPCON MODE	FIT_V FIT_H FIT_HV	Same as for 59/60			
624	U/C RESP H	STD NARROW				

The underlining (__) denotes the factory setting mode.

Setup menus

No.	Menu item	System menu No.25 (SYSTEM FREQ)				
		59/60	23/24	50	25 (HD)	25 (SD)
625	U/C RESP V	STD NARROW	Same as for 59/60	Same as for 59/60		
628	U/C ENH H	0 dB to +1 dB to 2 dB				
629	U/C ENH V	0 dB to +1 dB to 2 dB				
630	1080i → HD OUT	1080i 720p 1080i				
631	1080i → SD OUT	480i - - - 480p				
632	720p → HD OUT	1080i 720p 720p				
633	720p → SD OUT	- - - 480i 480p				
634	480p → HD OUT	1080i 720p - - -				
635	480p → SD OUT	480p 480p 480i				
636	480i → HD OUT	1080i 720p - - -				
637	480i → SD OUT	480i 480i 480p				
638	IN U/C MODE	FIT_V FIT_H FIT_HV		Same as for 59/60		
639	I U/C RESP H	STD NARROW				
640	I U/C RESP V	STD NARROW				
641	I U/C ENH H	0 dB to +1 dB to 2 dB				
642	I U/C ENH V	0 dB to +1 dB to 2 dB				
651	HUE STYLE	Pb-Pr U-V	Same as for 59/60			
676	BLK CLIP	OFF ON				
680	CC (F1) BLANK	BLANK THRU	BLANK		BLANK	BLANK
681	CC (F2) BLANK	BLANK THRU	BLANK		BLANK	BLANK
682 (525 system only)	VO SETUP (HD)	THRU ADD22 ADD21 ADD20	Same as for 59/60			
683 (525 system only)	VO SETUP (SD)	THRU ADD22 ADD21 ADD20				

The underlining (__) denotes the factory setting mode.

Setup menus

No.	Menu item	System menu No.25 (SYSTEM FREQ)				
		59/60	23/24	50	25 (HD)	25 (SD)
686	CCR MODE	OFF ON				
687	SDI INDEX O	OFF ON		Same as for 59/60		Same as for 59/60
688	CC REC	OFF ON				
695	BLANK LINE	BLANK THRU MANU				
700	CH1 IN LV	4dB 0dB −20dB				
701	CH2 IN LV					
702	CH3 IN LV					
703	CH4 IN LV					
704	CUE IN LV	4dB 0dB −20dB −60dB				
713	CH1 IN SEL	INT SG DIGI ANA				
714	CH2 IN SEL					
715	CH3 IN SEL					
716	CH4 IN SEL					
717	CH5 IN SEL					
718	CH6 IN SEL					
719	CH7 IN SEL					
720	CH8 IN SEL					
721	D IN SEL 12	AES SDI		Same as for 59/60		
722	D IN SEL 34					
723	D IN SEL 56					
724	D IN SEL 78					
725	REC CH1	CH1 to CH3+4				
726	REC CH2					
727	REC CH3					
728	REC CH4					
729	REC CH5	CH5 to CH7+8				
730	REC CH6					
731	REC CH7					
732	REC CH8					
733	REC CUE	CUE to CH1−8				
734	PB FADE	AUTO CUT FADE	CUT		CUT	
749	AUDIO PB VR	DIS ENA				
760	REC PT MUTE	OFF ON				
761	AUDIO INT SG	TONE SILNCE	SILNCE		SILNCE	
790	CUE REC VOL	16 to 0 to −16				

The underlining (__) denotes the factory setting mode.