
DIGITAL RECORDER

RS-232C COMMUNICATION CAPACITY

OPERATION MANUAL

MODEL

DX-NT400E

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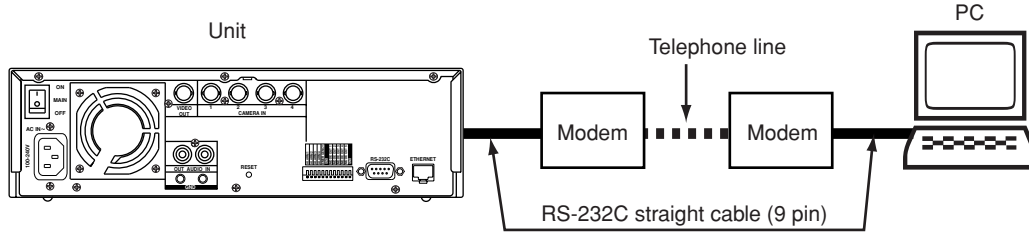
Connecting to a personal computer

■ Connecting with a personal computer

This unit can be remotely controlled from a PC equipped with a RS-232C connection. It is also possible to input comments from a PC for recording comment information along with the video.

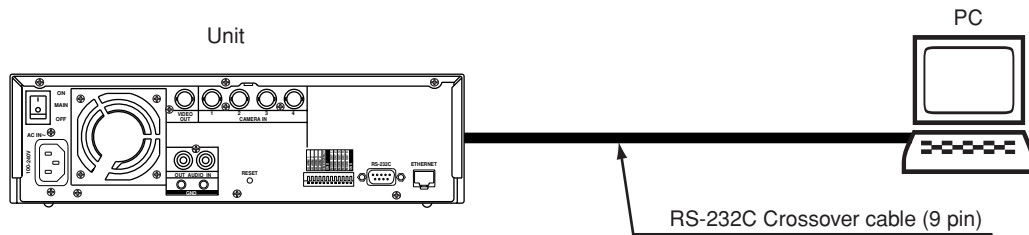
◆ Connection via modem

Please use RS-232C Straight cable (9pin) to connect a modem to this unit. The setting of CTS should be set to "HIGH" or "ON". Please refer to the instruction manual of a modem for details about connection.

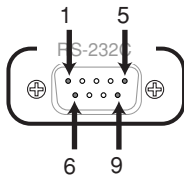


◆ Direct connection

Please use RS-232C Crossover cable (9pin) to connect a personal computer to this unit. RS-232C Crossover cable to be used differs depending on the personal computer.



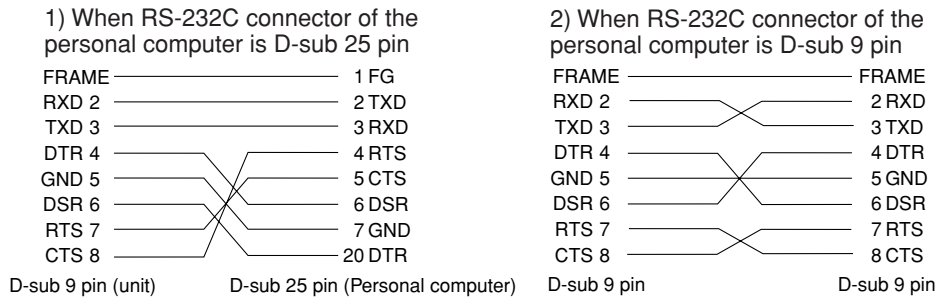
◆ RS-232C connector



Pin NO.	Letters	Transmission Contents	Pin NO.	Letters	Transmission Contents
2	RXD	Receiving Data	6	DSR	Data Set Ready
3	TXD	Transmitting Data	7	RTS	Request To Send
4	DTR	Data Terminal Ready	8	CTS	Clear To Send
5	GND	Signal Ground			

◆ RS-232C cable

Please use the following RS-232C Crossover cable to connect your personal computer to the unit.



Command codes

■ RS-232C settings

Communication related settings of this unit are made in “MODE” and “SETTINGS” of the <RS-232C> screen. Set the settings to the same values as the connecting modem or PC.

① When controlling this unit remotely from a PC, set “MODE” in the <RS-232C> screen to “REMOTE A”, “REMOTE B”, or “REMOTE C”.

“REMOTE A” : State information is returned from the unit.

“REMOTE B” : State transition information is returned from the unit.

“REMOTE C” : State information is not returned from the unit.

Available settings on this unit

Synchronization	Menu display	Asynchronous
1 Transmission rate at the data received/sent	TRANSMISSION MODE	1200/2400/4800/9600/19200
2 Data bit length	DATA BIT LENGTH	8 BIT/7 BIT
3 Parity bit setting	PARITY BIT	NONE/ODD/EVEN
4 Stop bit length	STOP BIT LENGTH	1 BIT/2 BIT
5 Line feed setting	DELIMITER	CR/CR-LF

Perform the following settings on the PC

Synchronization	Menu display
1 X control	Not displayed
2 S parameter	Not displayed
3 CS-RS hand-shake	displayed

■ Command code system

2 types of command codes of “direct operation specification” and “false operation panel” can be selected according to the purpose of the unit.

■ Description of command code system

◆ Direct operation specification

This system is used to control or set the unit and confirm the execution or error of the command sent from the PC by the status returned from the unit. This command type is structured by operation setting type commands that sets operations and menu setting type commands that directly sets various menus.

• Input format

Operation setting type commands are sent from the PC to the unit for each operation such as power on/off, recording, playback, etc.

Menu setting type commands are used to specify each menu setting of the unit.

As a general rule, do not send commands continuously, but send the next command after checking that the present command has been executed and completed.

• Response format

After sending a command, the following items can be checked by the status returned from the unit.

1) Command execution result, error type, command name, and operation status.

2) For operation setting type commands, the operation mode of the unit can be distinguished by the mode number of the returned status.

Distinction cannot be made with menu setting type commands. (Mode number is notified only when the status is changed.)

Example) Turning ON the unit.

Command from PC	Replied status code from unit to PC	Meaning
PW1 #1		Indicates POWER ON command has been sent.
	RC #2	Indicates that the unit has received a command.
	EX,00PW1,03 #2	EX : Indicates that a command has been executed. 00 : Indicates that the execution was successful. PW1 : Indicates response to POWER ON command. 03 : Indicates POWER ON status.

① When the unit cannot execute the operation setting type command or menu setting type command which is sent from a PC, the content of that error is displayed in the error type of the status returned from the unit. Check the error code and take appropriate measures.

① For control type commands such as recording, playback, etc., the interval between command transmission and the actual operation (command execution) may take some time. To prevent the gap between operation and actual execution, read the status after sending the command and check the transition of the actual execution.

Command codes (continued)

◆ False operation panel command type

This system is used to specify operations of this unit from a PC as if operating the actual operation button of the remote control while viewing the output video. Each command corresponds to the operation button of the remote control.

• Input confirmation type

Send commands as if operate the buttons of the remote control. As a general rule, do not send commands continuously, but send the next command after checking that the present command has been executed and completed. After sending a command, the command execution result, error type, and command name can be checked by the status returned from the unit. To check the actual execution, view the output screen of the unit on the monitor screen.

Example) Playing back the recorded data using still-frames.

Command from PC	Replied status code from unit to PC	Meaning
KKP0 #1		Indicates that a command equivalent to "press the POWER button" was sent.
	RC #2	Indicates that the unit has received a command.
	EX,00KKP0 #2	EX : Indicates that a command has been executed. 00 : Indicates that the execution was successful. KKP0 : Indicates that the POWER button was operated.
KKB1 #1		Indicates that a command equivalent to "press the PLAY button" was sent.
	PC #2	Indicates that the unit has received a command.
	EX,00KKB1 #2	EX : Indicates that a command has been executed. 00 : Indicates that the execution was successful. KKB1 : Indicates that the PLAY button was operated.
KKB4 #1		Indicates that a command equivalent to "press the PAUSE button" was sent.
	PC #2	Indicates that the unit has received a command.
	EX,00KKB4 #2	EX : Indicates that a command has been executed. 00 : Indicates that the execution was successful. KKB4 : Indicates that the PAUSE button was operated.

① For control type commands such as recording, playback, etc., the interval between command transmission and the actual operation (command execution) may take some time. To prevent the gap between operation and actual execution, read the status after sending the command and check the transition of the actual execution.

◆ State transition information function

Example) Issuing state transition information of system mode "POWER ON".

Replied status code from unit to PC	Meaning
EX,AA,0103 #2	EX : Indicates that a command has been executed. AA : Indicates the state transition information. 0103 : Indicates that status condition of POWER ON.

When setting "MODE" in the <RS-232C> screen to "REMOTE A", every state information is returned from the unit. When setting to "REMOTE B", state transition information is returned from the unit. When setting to "REMOTE C", state information is not returned from the unit.

◆ Command receive confirmation function

After executing a received command, the error type during command execution is notified after execution status "EX".

Error type	Contents of Error
00	Normal
01	Execution Error
02	Execution Unable Error
03	Incorrect command
04	Incorrect parameter
05	Executing the command
06	Not used

Command codes (continued)

◆ Details of the numbers

#1 : When the setting of DELIMITER on <RS-232C SETTINGS> screen is set to CR, carriage return code (0DH) is input. If the setting is CR•LF, carriage return code (0DH) and line feed code (0AH) are input.

#2 : When the setting of DELIMITER on <RS-232C SETTINGS> screen is set to CR, carriage return code (0DH) is output. If the setting is CR•LF, carriage return code (0DH) and line feed code (0AH) are output.

* : Indicates one number or character.

◆ Command code

• RS-232C [Direct operation specification] operation setting system command form

General (1/2)

Commands name	Commands	Status	Notes
Power	PW*(1) #1	RC #2 EX,**(2)PW*(1),**(3) #2	*(1): Power ON/OFF 0 : Off 1 : On **(2): Error type **(3): System mode number 00 : Power off 01 : System change 04 : Power on 07 : SETTINGS menu 09 : SEARCH menu 0A : Device unusual situation 0B : Device initialize 0C : Device reconstruction 10 : Auto set up 11 : System unusual situation
Recording	RC*(1) #1	RC #2 EX,**(2)RC*(1),**(3) #2	*(1): Recording/Stop recording 0 : Stop recording 1 : Recording **(2): Error type **(3): Recording mode number 00 : Stop 04 : Recording 06 : Alarm recording during stop 07 : Alarm recording during recording 0A : Recording error
Playback	PB**(1) #1	RC #2 EX,**(2)PB**(1),**(3) #2	*(1): Playback 00 : Stop 11 : Playback 12 : Forward speed search 1 13 : Forward speed search 2 14 : Forward speed search 3 15 : Forward speed search 4 16 : Fast forward 17 : Forward field advance 21 : Reverse playback 22 : Reverse speed search 1 23 : Reverse speed search 2 24 : Reverse speed search 3 25 : Reverse speed search 4 26 : Rewind 27 : Reverse field advance 30 : Pause 41 : Time date search 42 : Forward record index search 43 : Forward alarm index search 44 : Forward skip search 52 : Reverse record index search 53 : Reverse alarm index search 54 : Reverse skip search 70 : Jump to start point 71 : Jump to end point **(2): Error type **(3): Playback mode number 00 : Stop 03 : Playback (single screen) 04 : Reverse playback (single screen) 05 : Playback pause (single screen) 06 : Reverse playback pause (single screen) 07 : Forward speed search (single screen) 08 : Reverse speed search (single screen) 09 : Fast forward (single screen) 0A : Rewind (single screen) 0B : Playback (split screen) 0C : Reverse playback (split screen) 0D : Playback pause (split screen) 0E : Reverse playback pause (split screen) 0F : Forward speed search (split screen) 10 : Reverse speed search (split screen) 11 : Fast forward (split screen) 12 : Rewind (split screen) 13 : Playback (zoom) 14 : Reverse playback (zoom) 15 : Playback pause (zoom) 16 : Reverse playback pause (zoom) 17 : Forward speed search (zoom) 18 : Reverse speed search (zoom) 19 : Fast forward (zoom) 1A : Rewind (zoom) 1C : Playback error
Alarm list search	PB**(1)***** (4) #1	RC #2 EX,**(2)PB**(1)***** (4),**(3) #2	*(1): 60 **(2): Error type **(3): Playback mode number (Refer to "Playback" command.) ***** (4): Alarm list number (00000-09999) (Latest is 00000)
Comment search	PB**(1)**(2)**(3)**(4)**(5) ***** ***** (6) #1	RC #2 EX,**(8)PB**(1)**(2)**(3)**(4) ***(5)***** ***** (6),**(7) #2	*(1): Comment search (80) *(2): Search direction 00 : Forward 01 : Reverse *(3): Number of search times (01-99) *(4): Camera number 00 : CH1 01 : CH2 02 : CH3 03 : CH4 *(5): Number of comment characters (01-32) ** ... *(6): Comment *(7): Playback mode number (Refer to "Playback" command.) *(8): Error type

Error type : Refer to "Command receive confirmation function".

Command codes (continued)

• RS-232C [Direct operation specification] operation setting system command form General (2/2)

Commands name	Commands	Status	Notes
Switcher	SW*** ⁽¹⁾ F1	RC F2 EX, ** ⁽²⁾ SW*** ⁽¹⁾ , ** ⁽³⁾ F2	*** ⁽¹⁾ : Switcher 0100: Single screen sequential 0101: CH1 0102: CH2 0103: CH3 0104: CH4 0180: Zoom cancel 0181: Zoom (X1) 0182: Twice zoom (X2) 0184: Four times zoom (X4) 0191: Zoom moves upward 0192: Zoom moves downward 0193: Zoom moves rightward 0194: Zoom moves leftward 0401: Split 4 ** ⁽²⁾ : Error type <In the playback mode> ** ⁽³⁾ : Playback mode number (Refer to "Playback" command.) <In the mode except playback> ** ⁽³⁾ : Display mode number 03: Single screen 04: Split/sequential screen 05: Zoom 07: Display error
Timer	TM* ⁽¹⁾ F1	RC F2 EX, ** ⁽²⁾ TM* ⁽¹⁾ , ** ⁽³⁾ F2	* ⁽¹⁾ : Timer recording ON/OFF 0: Timer off 1: Timer on ** ⁽²⁾ : Error type ** ⁽³⁾ : Timer mode number 00: Timer off 01: Timer on 02: Timer error
Alarm interrupt	AD* ⁽¹⁾ F1	RC F2 EX, ** ⁽²⁾ AD* ⁽¹⁾ , ** ⁽³⁾ F2	* ⁽¹⁾ : Alarm interrupt setting 0: Alarm interrupt off 1: Alarm interrupt on ** ⁽²⁾ : Error type ** ⁽³⁾ : Alarm disable mode number 00: Alarm disable off 01: Alarm disable on
Acquisition of the recorded period	IF** ⁽¹⁾ F1	RC F2 EX, ** ⁽²⁾ IF** ⁽¹⁾ , ** ⁽³⁾ , ** ⁽⁴⁾ ** ⁽⁵⁾ ** ⁽⁶⁾ ** ⁽⁷⁾ ** ⁽⁸⁾ ** ⁽⁹⁾ ** ⁽¹⁰⁾ ** ⁽¹¹⁾ ** ⁽¹²⁾ ** ⁽¹³⁾ ** ⁽¹⁴⁾ ** ⁽¹⁵⁾ ***** ⁽¹⁶⁾ F2	** ⁽¹⁾ : Acquisition of the recorded period 01: MAIN 02: SUB ** ⁽²⁾ : Error type ** ⁽³⁾ : Recorded period acquisition mode number 00: Done 02: Acquisition error ** ⁽⁴⁾ : Start year ** ⁽⁵⁾ : Start month ** ⁽⁶⁾ : Start day ** ⁽⁷⁾ : Start hour ** ⁽⁸⁾ : Start minute ** ⁽⁹⁾ : Start second ** ⁽¹⁰⁾ : End year ** ⁽¹¹⁾ : End month ** ⁽¹²⁾ : End day ** ⁽¹³⁾ : End hour ** ⁽¹⁴⁾ : End minute ** ⁽¹⁵⁾ : End second ***** ⁽¹⁶⁾ : Number of alarms listed on alarm list
Warning reset	WC* ⁽¹⁾ F1	RC F2 EX, ** ⁽²⁾ WC* ⁽¹⁾ , ** ⁽³⁾ F2	* ⁽¹⁾ : Warning reset 0: Reset (only display) ** ⁽²⁾ : Error type ** ⁽³⁾ : System mode number (Refer to "Power" command.)
Menu initializing	MC* ⁽¹⁾ F1	RC F2 EX, ** ⁽²⁾ MC* ⁽¹⁾ , ** ⁽³⁾ F2	* ⁽¹⁾ : Menu initializing 0: Initialize ** ⁽²⁾ : Error type ** ⁽³⁾ : System mode number (Refer to "Power" command.)
Deletion of the data	CL** ⁽¹⁾ F1	RC F2 EX, ** ⁽²⁾ CL** ⁽¹⁾ , ** ⁽³⁾ F2	** ⁽¹⁾ : Deletion of the data 01: MAIN 02: SUB ** ⁽²⁾ : Error type ** ⁽³⁾ : Data deletion mode number 00: Done 02: Error

Error type : Refer to "Command receive confirmation function".

Command codes (continued)

• RS-232C [Direct operation specification] menu setting system command form <TIME DATE/DISPLAY SETTINGS>

Commands name	Commands	Status	Notes
TIME DATE ADJUST	<Menu setting> DW,***** ⁽¹⁾ ***** ⁽²⁾ [F1] <Inquiry for setting information> DR,***** ⁽¹⁾ [F1]	<Writing of menu information> RC [F2] EX,*** ⁽³⁾ DW,***** ⁽¹⁾ ***** ⁽²⁾ [F2] <Reading of menu information> RC [F2] EX,*** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ [F2]	***** ⁽¹⁾ : 00004 : YEAR 00006 : DAY 00008 : TIME (minute) ***** ⁽²⁾ : YEAR : 00001-00099 MONTH : 00001-00012 DAY : 00001-00031 TIME (hour) : 00000-00023 TIME (minute) : 00000-00059 TIME (second) : 00000-00059 *** ⁽³⁾ : Error type 00005 : MONTH 00007 : TIME (hour) 00009 : TIME (second)
DAYLIGHT SAVING	↑	↑	***** ⁽¹⁾ : 00010 ***** ⁽²⁾ : 00000 : OFF 00001 : AUTO *** ⁽³⁾ : Error type
DAYLIGHT SETTING	↑	↑	***** ⁽¹⁾ : 05688 : IN - DAY OF THE WEEK 05689 : OUT - DAY OF THE WEEK 05690 : IN - WEEK 05691 : OUT - WEEK 05692 : IN - MONTH 05693 : OUT - MONTH 05694 : IN - TIME (hour) 05695 : OUT - TIME (hour) 05696 : IN - TIME (minute) 05697 : OUT - TIME (minute) ***** ⁽²⁾ DAY OF THE WEEK : 00000 : SUN 00001 : MON 00002 : TUE 00003 : WED 00004 : THU 00005 : FRI 00006 : SAT WEEK : 00001 : 1ST 00002 : 2ND 00003 : 3RD 00004 : 4TH 00005 : LAST MONTH : 00001 : JAN 00002 : FEB 00003 : MAR 00004 : APR 00005 : MAY 00006 : JUN 00007 : JUL 00008 : AUG 00009 : SEP 00010 : OCT 00011 : NOV 00012 : DEC TIME (hour) : 00000-00023 TIME (minute) : 00000-00059 *** ⁽³⁾ : Error type
DISPLAY MODE	↑	↑	***** ⁽¹⁾ : 00001 ***** ⁽²⁾ : 00001-00006 *** ⁽³⁾ : Error type
CLOCK LOCATION SETTING	↑	↑	***** ⁽¹⁾ : 00002 ***** ⁽²⁾ : 00000-00383 *** ⁽³⁾ : Error type
CAMERA DISPLAY	↑	↑	***** ⁽¹⁾ : 00003 ***** ⁽²⁾ : 00000 : NONE 00001 : NUMBER 00002 : TITLE 00003 : COMMENT *** ⁽³⁾ : Error type
CAMERA TITLE/ MEMO SETTING	<Menu setting> DW02,***** ⁽¹⁾ ***** ⁽²⁾ [F1] <Inquiry for setting information> DR02,***** ⁽¹⁾ [F1]	<Writing of menu information> RC [F2] EX,*** ⁽³⁾ DW02,***** ⁽¹⁾ ***** ⁽²⁾ [F2] <Reading of menu information> RC [F2] EX,*** ⁽³⁾ DR02,***** ⁽¹⁾ ***** ⁽²⁾ [F2]	***** ⁽¹⁾ : CH1 : 00011-00026 CH2 : 00027-00042 CH3 : 00043-00058 CH4 : 00059-00074 MEMO : 00267-00282 ***** ⁽²⁾ : (Refer to "Character code list") *** ⁽³⁾ : Error type
DUPLEX MODE DISPLAY	<Menu setting> DW,***** ⁽¹⁾ ***** ⁽²⁾ [F1] <Inquiry for setting information> DR,***** ⁽¹⁾ [F1]	<Writing of menu information> RC [F2] EX,*** ⁽³⁾ DW,***** ⁽¹⁾ ***** ⁽²⁾ [F2] <Reading of menu information> RC [F2] EX,*** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ [F2]	***** ⁽¹⁾ : 00283 ***** ⁽²⁾ : 00000 : NONE 00001 : TOP 00002 : BOTTOM *** ⁽³⁾ : Error type
CLOCK LOCATION SETTING	↑	↑	***** ⁽¹⁾ : 00494 ***** ⁽²⁾ : 00047 (47) : Default position 00043 (43) 00051 (51) 00055 (55) 00059 (59) 00063 (63) 00067 (67) 00071 (71) 00075 (75) 00079 (79) 00083 (83) 00087 (87) 00091 (91) 00095 (95) 00099 (99) 00103 (103) 00107 (107) 00111 (111) 00115 (115) 00119 (119) 00123 (123) *** ⁽³⁾ : Error type

Error type : Refer to "Command receive confirmation function".

Command codes (continued)

• RS-232C [Direct operation specification] menu setting system command form <MPX DISPLAY SETTINGS>

Commands name	Commands	Status	Notes
SPLIT4 SCREEN SETTING	<Menu setting> DW,***** ⁽¹⁾ ***** ⁽²⁾ [E1] <Inquiry for setting information> DR,***** ⁽¹⁾ [E1]	<Writing of menu information> RC [E2] EX,** ⁽³⁾ DW,***** ⁽¹⁾ ***** ⁽²⁾ [E2] <Reading of menu information> RC [E2] EX,** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ [E2]	***** ⁽¹⁾ : SPLIT4 : 00305 : Top - Left 00306 : Top - Right 00307 : Bottom - Left 00308 : Bottom - Right ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 ** ⁽³⁾ : Error type
SEQUENCE SETTING (1-4)	†	†	***** ⁽¹⁾ : 00405 : SEQUENCE 1 00406 : SEQUENCE 2 00407 : SEQUENCE 3 00408 : SEQUENCE 4 ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00252 : --- ** ⁽³⁾ : Error type
SEQUENCE SETTING (TIME)	†	†	***** ⁽¹⁾ : 00423 : SEQUENCE 1 00424 : SEQUENCE 2 00425 : SEQUENCE 3 00426 : SEQUENCE 4 ***** ⁽²⁾ : 00001-00030 (second) ** ⁽³⁾ : Error type
INTERLACE	†	†	***** ⁽¹⁾ : 00300 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type
COVERT CAMERA SETTING	†	†	***** ⁽¹⁾ : 00477 : CH1 00478 : CH2 00479 : CH3 00480 : CH4 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type
ALARM DISPLAY	†	†	***** ⁽¹⁾ : 00304 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type

Error type : Refer to "Command receive confirmation function".

Command codes (continued)

• RS-232C [Direct operation specification] menu setting system command form <MOTION DETECTION SETTINGS>

Commands name	Commands	Status	Notes
DETECTION MASK SETTING	<Menu setting> DW,***** ⁽¹⁾ ***** ⁽²⁾ \square <Inquiry for setting information> DR,***** ⁽¹⁾ \square	<Writing of menu information> RC \square EX,*** ⁽³⁾ DW,***** ⁽¹⁾ ***** ⁽²⁾ \square <Reading of menu information> RC \square EX,*** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ \square	***** ⁽¹⁾ : 00533-00724 : CH1 00725-00916 : CH2 00917-01108 : CH3 01109-01300 : CH4 ***** ⁽²⁾ : 00000 : OFF 00001 : ON *** ⁽³⁾ : Error type
SENSITIVITY	↑	↑	***** ⁽¹⁾ : 00501 : CH1 00502 : CH2 00503 : CH3 00504 : CH4 ***** ⁽²⁾ : 00000 : HIGH · · · · <LOW 00001 : HIGH · · · · <LOW 00002 : HIGH · · · · <<<LOW 00003 : HIGH · · · · <<<LOW 00004 : HIGH <<<<<LOW *** ⁽³⁾ : Error type
MOTION THRESHOLD	↑	↑	***** ⁽¹⁾ : 00517 : CH1 00518 : CH2 00519 : CH3 00520 : CH4 ***** ⁽²⁾ : 00001-00192 (point) *** ⁽³⁾ : Error type
MD LOCK OUT TIME	↑	↑	***** ⁽¹⁾ : 00284 : CH1 00285 : CH2 00286 : CH3 00287 : CH4 ***** ⁽²⁾ : 00020 : OFF 00050 : 5 sec 00100 : 10 sec 00150 : 15 sec 00300 : 30 sec 00450 : 45 sec 00600 : 60 sec 012000 : 120 sec *** ⁽³⁾ : Error type

Error type : Refer to "Command receive confirmation function".

Command codes (continued)

• RS-232C [Direct operation specification] menu setting system command form

<RECORD SETTINGS>

Commands name	Commands	Status	Notes
RECORD SETTING (PPS) for manual recording	<Menu setting> DW,***** ⁽¹⁾ ***** ⁽²⁾	<Writing of menu information> RC EX,*** ⁽³⁾ DW,***** ⁽¹⁾ ***** ⁽²⁾	***** ⁽¹⁾ : 03703 : CH1 03704 : CH2 03705 : CH3 03706 : CH4 ***** ⁽²⁾ : 00001 : 25P 00002 : 12.5P 00003 : 8.333P 00004 : 6.25P 00005 : 5P 00006 : 4.167P 00008 : 3.125P 00010 : 2.5P 00025 : 1P 00050 : 0.5P 00100 : 0.25P 00200 : 0.125P 65535 : - - - - - ** ⁽³⁾ : Error type
RECORD SETTING (GRADE) for manual recording	↑	↑	***** ⁽¹⁾ : 03735 : CH1 03736 : CH2 03737 : CH3 03738 : CH4 ***** ⁽²⁾ : 00000 : SUPER 00001 : HIGH 00002 : STD 00003 : BASIC 00004 : LONG ** ⁽³⁾ : Error type
RECORD SETTING (A-PPS) for manual recording	↑	↑	***** ⁽¹⁾ : 03719 : CH1 03720 : CH2 03721 : CH3 03722 : CH4 ***** ⁽²⁾ : 00001 : 25P 00002 : 12.5P 00003 : 8.333P 00004 : 6.25P 00005 : 5P 00006 : 4.167P 00008 : 3.125P 00010 : 2.5P 00025 : 1P 00050 : 0.5P 00100 : 0.25P 00200 : 0.125P 65535 : - - - - - ** ⁽³⁾ : Error type
RECORD SETTING (A-GRADE) for manual recording	↑	↑	***** ⁽¹⁾ : 03751 : CH1 03752 : CH2 03753 : CH3 03754 : CH4 ***** ⁽²⁾ : 00000 : SUPER 00001 : HIGH 00002 : STD 00003 : BASIC 00004 : LONG ** ⁽³⁾ : Error type
ALARM TYPE for manual recording	↑	↑	***** ⁽¹⁾ : 05683 ***** ⁽²⁾ : 00001 : ALARM CH 00002 : ALARM PLUS ** ⁽³⁾ : Error type
ALARM REC DURATION for manual recording	↑	↑	***** ⁽¹⁾ : 03700 ***** ⁽²⁾ : 00002 : 2S 00005 : 5S 00010 : 10S 00015 : 15S 00030 : 30S 00045 : 45S 00060 : 1M 00120 : 2M 00300 : 5M 00600 : 10M 01200 : 20M 01800 : 30M 03600 : 60M 00000 : MANUAL ** ⁽³⁾ : Error type
PRE ALARM REC for manual recording	↑	↑	***** ⁽¹⁾ : 05678 ***** ⁽²⁾ : 00000 : OFF 00001 : SHORT 00002 : MEDIUM 00003 : LONG ** ⁽³⁾ : Error type
ALARM SETTING (RECORD CAMERA) for manual recording	↑	↑	***** ⁽¹⁾ : 04238-04241 : ALARM 1 - RECORD CAMERA 1-4 04254-04257 : ALARM 2 - RECORD CAMERA 1-4 04270-04273 : ALARM 3 - RECORD CAMERA 1-4 04286-04289 : ALARM 4 - RECORD CAMERA 1-4 04494-04497 : EMR (Emergency) - RECORD CAMERA 1-4 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type
ALARM SETTING (TRIGGER) for manual recording	↑	↑	***** ⁽¹⁾ : 05598 : ALARM 1 05599 : ALARM 2 05600 : ALARM 3 05601 : ALARM 4 ***** ⁽²⁾ : 00000 : MD/EXT 00001 : MD 00002 : EXT 00003 : MD&EXT ** ⁽³⁾ : Error type

Error type : Refer to "Command receive confirmation function".

Command codes (continued)

• RS-232C [Direct operation specification] menu setting system command form <TIMER PROGRAM SETTINGS> (1/3)

Commands name	Commands	Status	Notes
SELECTED PATTERN for timer recording	<Menu setting> DW,***** ⁽¹⁾ ***** ⁽²⁾ [F1] <Inquiry for setting information> DR,***** ⁽¹⁾ [F1]	<Writing of menu information> RC [F2] EX,*** ⁽³⁾ DW,***** ⁽¹⁾ ***** ⁽²⁾ [F2] <Reading of menu information> RC [F2] EX,*** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ [F2]	***** ⁽¹⁾ : 03702 ***** ⁽²⁾ : 0000 : P1 00001 : P2 00002 : P3 *** ⁽³⁾ : Error type
TIMER PROGRAM	<Menu setting> DWO1,*** ⁽¹⁾ ***** ⁽²⁾ ***** ⁽³⁾ ***** ⁽⁴⁾ ***** ⁽⁵⁾ ***** ⁽⁶⁾ ***** ⁽⁷⁾ ***** ⁽⁸⁾ [F1] <Inquiry for setting information> DR01,*** ⁽¹⁾ [F1]	<Writing of menu information> RC [F2] EX,*** ⁽⁹⁾ DWO1,*** ⁽¹⁾ ***** ⁽²⁾ ***** ⁽³⁾ ... ***** ⁽⁸⁾ [F2] <Reading of menu information> RC [F2] EX,*** ⁽⁹⁾ DR01,*** ⁽¹⁾ ***** ⁽²⁾ ***** ⁽³⁾ ... ***** ⁽⁸⁾ [F2]	*** ⁽¹⁾ : Program number 00 : P1 - 1 01 : P1 - 2 02 : P1 - 3 03 : P1 - 4 04 : P1 - 5 05 : P1 - 6 06 : P1 - 7 07 : P1 - 8 08 : P2 - 1 09 : P2 - 2 10 : P2 - 3 11 : P2 - 4 12 : P2 - 5 13 : P2 - 6 14 : P2 - 7 15 : P2 - 8 16 : P3 - 1 17 : P3 - 2 18 : P3 - 3 19 : P3 - 4 20 : P3 - 5 21 : P3 - 6 22 : P3 - 7 23 : P3 - 8 ***** ⁽²⁾ : DW (Day of the week) 00000 : SUN 00001 : MON 00002 : TUE 00003 : WED 00004 : THU 00005 : FRI 00006 : SAT 00128 : DAY 00129 : SPL 00130 : HOL 00255 : - - - ***** ⁽³⁾ : START (Start time - hour) 00000-00023 : 00-23 00255 : - - ***** ⁽⁴⁾ : START (Start time - minute) 00000-00059 : 00-59 00255 : - - ***** ⁽⁵⁾ : END (End time - hour) 00000-00023 : 00-23 00255 : - - ***** ⁽⁶⁾ : END (End time - minute) 00000-00059 : 00-59 00255 : - - ***** ⁽⁷⁾ : MODE (REC MODE) 00001 : A 00002 : B 00003 : C 00004 : D 00008 : SKIP 00255 : - - - - ***** ⁽⁸⁾ : MD (Motion Detection) 00000 : OFF 00001 : ON 00255 : - *** ⁽⁹⁾ : Error type
ALARM TYPE for timer recording	<Menu setting> DW,***** ⁽¹⁾ ***** ⁽²⁾ [F1] <Inquiry for setting information> DR,***** ⁽¹⁾ [F1]	<Writing of menu information> RC [F2] EX,*** ⁽³⁾ DW,***** ⁽¹⁾ ***** ⁽²⁾ [F2] <Reading of menu information> RC [F2] EX,*** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ [F2]	***** ⁽¹⁾ : 05684 : REC MODE A 05685 : REC MODE B 05686 : REC MODE C 05687 : REC MODE D ***** ⁽²⁾ : 00001 : ALARM CH 00002 : ALARM PLUS *** ⁽³⁾ : Error type
SPL (Start day) for TIMER PROGRAM	↑	↑	***** ⁽¹⁾ : 03935 : P1 03936 : P2 03937 : P3 ***** ⁽²⁾ : 00000 : SUN 00001 : MON 00002 : TUE 00003 : WED 00004 : THU 00005 : FRI 00006 : SAT *** ⁽³⁾ : Error type
SPL (End day) for TIMER PROGRAM	↑	↑	***** ⁽¹⁾ : 03938 : P1 03939 : P2 03940 : P3 ***** ⁽²⁾ : 00000 : SUN 00001 : MON 00002 : TUE 00003 : WED 00004 : THU 00005 : FRI 00006 : SAT *** ⁽³⁾ : Error type
HOLIDAY SETTING	↑	↑	***** ⁽¹⁾ : 1st column : 2nd column : 3rd column : 4th column : Day / Month Day / Month Day / Month Day / Month 1st row : 03943 03942 03945 03944 03947 03946 03949 03948 2nd row : 03951 03950 03953 03952 03955 03954 03957 03956 3rd row : 03959 03958 03961 03960 03963 03962 03965 03964 4th row : 03967 03966 03969 03968 03971 03970 03973 03972 5th row : 03975 03974 03977 03976 03979 03978 03981 03980 ***** ⁽²⁾ : 00001-00031 : 01-31 (Day) 00001-00012 : 01-12 (Month) 00255 : - - - *** ⁽³⁾ : Error type

Error type : Refer to "Command receive confirmation function".

Command codes (continued)

• RS-232C [Direct operation specification] menu setting system command form <TIMER PROGRAM SETTINGS> (2/3)

Commands name	Commands	Status	Notes
RECORD SETTING A to D (PPS) for timer recording	<Menu setting> DW,***** ⁽¹⁾ ***** ⁽²⁾ [E1] <Inquiry for setting information> DR,***** ⁽¹⁾ [E1]	<Writing of menu information> RC [E2] EX,*** ⁽³⁾ DW,***** ⁽¹⁾ ***** ⁽²⁾ [E2] <Reading of menu information> RC [E2] EX,*** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ [E2]	***** ⁽¹⁾ : 03982 : A-CH1 03983 : A-CH2 03984 : A-CH3 03985 : A-CH4 03998 : B-CH1 03999 : B-CH2 04000 : B-CH3 04001 : B-CH4 04014 : C-CH1 04015 : C-CH2 04016 : C-CH3 04017 : C-CH4 04030 : D-CH1 04031 : D-CH2 04032 : D-CH3 04033 : D-CH4 ***** ⁽²⁾ : 00001 : 25P 00002 : 12.5P 00003 : 8.333P 00004 : 6.25P 00005 : 5P 00006 : 4.167P 00008 : 3.125P 00010 : 2.5P 00025 : 1P 00050 : 0.5P 00100 : 0.25P 00200 : 0.125P 65535 : - - - - - ** ⁽³⁾ : Error type
RECORD SETTING A to D (GRADE) for timer recording	↑	↑	***** ⁽¹⁾ : 04110 : A-CH1 04111 : A-CH2 04112 : A-CH3 04113 : A-CH4 04126 : B-CH1 04127 : B-CH2 04128 : B-CH3 04129 : B-CH4 04142 : C-CH1 04143 : C-CH2 04144 : C-CH3 04145 : C-CH4 04158 : D-CH1 04159 : D-CH2 04160 : D-CH3 04161 : D-CH4 ***** ⁽²⁾ : 00000 : SUPER 00001 : HIGH 00002 : STD 00003 : BASIC 00004 : LONG ** ⁽³⁾ : Error type
RECORD SETTING A to D (A-PPS) for timer recording	↑	↑	***** ⁽¹⁾ : 04046 : A-CH1 04047 : A-CH2 04048 : A-CH3 04049 : A-CH4 04062 : B-CH1 04063 : B-CH2 04064 : B-CH3 04065 : B-CH4 04078 : C-CH1 04079 : C-CH2 04080 : C-CH3 04081 : C-CH4 04094 : D-CH1 04095 : D-CH2 04096 : D-CH3 04097 : D-CH4 ***** ⁽²⁾ : 00001 : 25P 00002 : 12.5P 00003 : 8.333P 00004 : 6.25P 00005 : 5P 00006 : 4.167P 00008 : 3.125P 00010 : 2.5P 00025 : 1P 00050 : 0.5P 00100 : 0.25P 00200 : 0.125P 65535 : - - - - - ** ⁽³⁾ : Error type
RECORD SETTING A to D (A-GRADE) for timer recording	↑	↑	***** ⁽¹⁾ : 04174 : A-CH1 04175 : A-CH2 04176 : A-CH3 04177 : A-CH4 04190 : B-CH1 04191 : B-CH2 04192 : B-CH3 04193 : B-CH4 04206 : C-CH1 04207 : C-CH2 04208 : C-CH3 04209 : C-CH4 04222 : D-CH1 04223 : D-CH2 04224 : D-CH3 04225 : D-CH4 ***** ⁽²⁾ : 00000 : SUPER 00001 : HIGH 00002 : STD 00003 : BASIC 00004 : LONG ** ⁽³⁾ : Error type
ALARM REC DURATION for timer recording	↑	↑	***** ⁽¹⁾ : 03701 ***** ⁽²⁾ : 00002 : 2S 00005 : 5S 00010 : 10S 00015 : 15S 00030 : 30S 00045 : 45S 00060 : 1M 00120 : 2M 00300 : 5M 00600 : 10M 01200 : 20M 01800 : 30M 03600 : 60M 00000 : MANUAL ** ⁽³⁾ : Error type
PRE ALARM REC for timer recording	↑	↑	***** ⁽¹⁾ : 05679 : REC MODE A 05680 : REC MODE B 05681 : REC MODE C 05682 : REC MODE D ***** ⁽²⁾ : 00000 : OFF 00001 : SHORT 00002 : MEDIUM 00003 : LONG ** ⁽³⁾ : Error type

Error type : Refer to "Command receive confirmation function".

Command codes (continued)

• RS-232C [Direct operation specification] menu setting system command form <TIMER PROGRAM SETTINGS> (3/3)

Commands name	Commands	Status	Notes
ALARM SETTING A to D (RECORD CAMERA) for timer recording	<Menu setting> DW,***** ⁽¹⁾ ***** ⁽²⁾ [F1] <Inquiry for setting information> DR,***** ⁽¹⁾ [F1]	<Writing of menu information> RC [F2] EX,*** ⁽³⁾ DW,***** ⁽¹⁾ ***** ⁽²⁾ [F2] <Reading of menu information> RC [F2] EX,*** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ [F2]	***** ⁽¹⁾ : ALARM SETTING A : 04510-04513 : ALARM 1 - RECORD CAMERA 1-4 04526-04529 : ALARM 2 - RECORD CAMERA 1-4 04542-04545 : ALARM 3 - RECORD CAMERA 1-4 04558-04561 : ALARM 4 - RECORD CAMERA 1-4 04766-04769 : EMR (Emergency) - RECORD CAMERA 1-4 ALARM SETTING B : 04782-04785 : ALARM 1 - RECORD CAMERA 1-4 04798-04801 : ALARM 2 - RECORD CAMERA 1-4 04814-04817 : ALARM 3 - RECORD CAMERA 1-4 04830-04833 : ALARM 4 - RECORD CAMERA 1-4 05038-05041 : EMR (Emergency) - RECORD CAMERA 1-4 ALARM SETTING C : 05054-05057 : ALARM 1 - RECORD CAMERA 1-4 05070-05073 : ALARM 2 - RECORD CAMERA 1-4 05086-05089 : ALARM 3 - RECORD CAMERA 1-4 05102-05105 : ALARM 4 - RECORD CAMERA 1-4 05310-05313 : EMR (Emergency) - RECORD CAMERA 1-4 ALARM SETTING D : 05326-05329 : ALARM 1 - RECORD CAMERA 1-4 05342-05345 : ALARM 2 - RECORD CAMERA 1-4 05358 -05361 : ALARM 3 - RECORD CAMERA 1-4 05374-05377 : ALARM 4 - RECORD CAMERA 1-4 05582-05585 : EMR (Emergency) - RECORD CAMERA 1-4 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type
ALARM SETTING A to D (TRIGGER) for timer recording	↑	↑	***** ⁽¹⁾ : ALARM SETTING A : 05614 : ALARM 1 05615 : ALARM 2 05616 : ALARM 3 05617 : ALARM 4 ALARM SETTING B : 05630 : ALARM 1 05631 : ALARM 2 05632 : ALARM 3 05633 : ALARM 4 ALARM SETTING C : 05646 : ALARM 1 05647 : ALARM 2 05648 : ALARM 3 05649 : ALARM 4 ALARM SETTING D : 05662 : ALARM 1 05663 : ALARM 2 05664 : ALARM 3 05665 : ALARM 4 ***** ⁽²⁾ : 00000 : MD/EXT 00001 : MD 00002 : EXT 00003 : MD&EXT ** ⁽³⁾ : Error type

Error type : Refer to "Command receive confirmation".

Command codes (continued)

• RS-232C [Direct operation specification] menu setting system command form <INITIAL SET UP/INFORMATION> (1/2)

Commands name	Commands	Status	Notes
HDD REPEAT REC MAIN	<Menu setting> DW,***** ⁽¹⁾ ***** ⁽²⁾ [E1] <Inquiry for setting information> DR,***** ⁽¹⁾ [E1]	<Writing of menu information> RC [E2] EX,** ⁽³⁾ DW,***** ⁽¹⁾ ***** ⁽²⁾ [E2] <Reading of menu information> RC [E2] EX,** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ [E2]	***** ⁽¹⁾ : 05709 ***** ⁽²⁾ : 00000 : OFF 00001 : ON 00002 : STANDBY ** ⁽³⁾ : Error type
HDD REPEAT REC SUB	↑	↑	***** ⁽¹⁾ : 05710 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type
HDD REPEAT PLAY	↑	↑	***** ⁽¹⁾ : 05711 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type
IM-CHECK PLAY	↑	↑	***** ⁽¹⁾ : 05702 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type
AUDIO RECORDING	↑	↑	***** ⁽¹⁾ : 05700 ***** ⁽²⁾ : 00000 : OFF 00001 : ON 00002 : ALARM ** ⁽³⁾ : Error type
MODE OUT	↑	↑	***** ⁽¹⁾ : 05712 : MODE OUT 1 05713 : MODE OUT 2 05714 : MODE OUT 3 05715 : MODE OUT 4 05716 : MODE OUT 5 ***** ⁽²⁾ : 00000 : OFF 00001 : REC 00002 : PLAY 00003 : REMAIN 00004 : POWER 00005 : MOTION1 00006 : MOTION2 00007 : MOTION3 00008 : MOTION4 00009 : ALARM 00010 : LAN 00011 : CALL OUT ** ⁽³⁾ : Error type
KEY SOUND	↑	↑	***** ⁽¹⁾ : 05717 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type
BUZZER	↑	↑	***** ⁽¹⁾ : 05718 ***** ⁽²⁾ : 00000 : OFF 00001 : REMAIN 00002 : WARNING 00003 : ALARM ** ⁽³⁾ : Error type
REMAIN HDD (HDD)	↑	↑	***** ⁽¹⁾ : 05719 ***** ⁽²⁾ : 00000 : OFF 00001 : MAIN 00002 : SUB ** ⁽³⁾ : Error type
REMAIN HDD (Capacity)	↑	↑	***** ⁽¹⁾ : 05720 ***** ⁽²⁾ : 00002 : 2% 00004 : 4% 00006 : 6% 00008 : 8% 00010 : 10% 00015 : 15% 00020 : 20% 00030 : 30% 00040 : 40% 00050 : 50% ** ⁽³⁾ : Error type
HDD MAIN REMAIN	↑	↑	***** ⁽¹⁾ : 05721 ***** ⁽²⁾ : 00002 : 2% 00004 : 4% 00006 : 6% 00008 : 8% 00010 : 10% 00015 : 15% 00020 : 20% 00030 : 30% 00040 : 40% 00050 : 50% 00255 : OFF ** ⁽³⁾ : Error type
HDD SUB REMAIN	↑	↑	***** ⁽¹⁾ : 05722 ***** ⁽²⁾ : 00002 : 2% 00004 : 4% 00006 : 6% 00008 : 8% 00010 : 10% 00015 : 15% 00020 : 20% 00030 : 30% 00040 : 40% 00050 : 50% 00255 : OFF ** ⁽³⁾ : Error type
EMERGENCY REC DURATION	↑	↑	***** ⁽¹⁾ : 05701 ***** ⁽²⁾ : 00060 : 1M 00120 : 2M 00300 : 5M 00600 : 10M 01200 : 20M 01800 : 30M 03600 : 60M ** ⁽³⁾ : Error type

Error type : Refer to "Command receive confirmation function".

Command codes (continued)

• RS-232C [Direct operation specification] menu setting system command form <INITIAL SET UP/INFORMATION> (2/2)

Commands name	Commands	Status	Notes
HDD MAIN FULL	<Menu setting> DW,***** ⁽¹⁾ ***** ⁽²⁾ [E1] <Inquiry for setting information> DR,***** ⁽¹⁾ [E1]	<Writing of menu information> RC [E2] EX,** ⁽³⁾ DW,***** ⁽¹⁾ ***** ⁽²⁾ [E2] <Reading of menu information> RC [E2] EX,** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ [E2]	***** ⁽¹⁾ : 05724 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type
HDD SUB FULL	↑	↑	***** ⁽¹⁾ : 05725 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type
RS-232C MODE	↑	↑	***** ⁽¹⁾ : 05727 ***** ⁽²⁾ : 00000 : OFF 00001 : REMOTE A 00002 : REMOTE B 00003 : REMOTE C ** ⁽³⁾ : Error type
RS-232C TRANSMISSION MODE	↑	↑	***** ⁽¹⁾ : 05728 ***** ⁽²⁾ : 01200 : 1200 02400 : 2400 04800 : 4800 09600 : 9600 19200 : 19200 ** ⁽³⁾ : Error type
RS-232C DATA BIT LENGTH	↑	↑	***** ⁽¹⁾ : 05729 ***** ⁽²⁾ : 00007 : 7BIT 00008 : 8BIT ** ⁽³⁾ : Error type
RS-232C PARITY BIT	↑	↑	***** ⁽¹⁾ : 05730 ***** ⁽²⁾ : 00000 : NONE 00001 : ODD 00002 : EVEN ** ⁽³⁾ : Error type
RS-232C STOP BIT LENGTH	↑	↑	***** ⁽¹⁾ : 05731 ***** ⁽²⁾ : 00001 : 1BIT 00002 : 2BIT ** ⁽³⁾ : Error type
RS-232C DELIMITER	↑	↑	***** ⁽¹⁾ : 05732 ***** ⁽²⁾ : 00000 : CR 00001 : CR·LF ** ⁽³⁾ : Error type
LANGUAGE SELECTION	↑	↑	***** ⁽¹⁾ : 00000 ***** ⁽²⁾ : 00000 : ENGLISH 00001 : FRANCAIS 00002 : DEUTSCH 00003 : ESPAÑOL 00004 : РУССКИЙ 00005 : ITALIANO ** ⁽³⁾ : Error type
















Error type : Refer to "Command receive confirmation function".

Command codes (continued)

• RS-232C [Direct operation specification] menu setting system command form

<SEARCH>

Refer to the “Playback” of [Direct operation specification] operation setting system command form “General” for search execution.

Commands name	Commands	Status	Notes
TIME DATE SEARCH (Time setting)	<Menu setting> DW,***** ⁽¹⁾ ***** ⁽²⁾  <Inquiry for setting information> DR,***** ⁽¹⁾ 	<Writing of menu information> RC  EX,*** ⁽³⁾ DW,***** ⁽¹⁾ ***** ⁽²⁾  <Reading of menu information> RC  EX,*** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ 	***** ⁽¹⁾ : Time to be searched 06000 : Year 06001 : Month 06002 : Day 06003 : Hour 06004 : Minute 06005 : Second ***** ⁽²⁾ : Year : 00001-00099 Month : 00001-00012 Day : 00001-00031 Hour : 00000-00023 Minute : 00000-00059 Second : 00000-00059 *** ⁽³⁾ : Error type
INDEX SEARCH	†	†	***** ⁽¹⁾ : 06014 ***** ⁽²⁾ : 00001-00099 *** ⁽³⁾ : Error type
ALARM INDEX SEARCH	†	†	***** ⁽¹⁾ : 06015 ***** ⁽²⁾ : 00001-00099 *** ⁽³⁾ : Error type
SEARCH SELECTION (DATE/TIME)	†	†	***** ⁽¹⁾ : List time mask 06008 : Year 06009 : Month 06010 : Day 06011 : Hour 06012 : Minute 06013 : Second ***** ⁽²⁾ : Year : 00001-00099 Month : 00001-00012 Day : 00001-00031 Hour : 00000-00023 Minute : 00000-00059 Second : 00000-00059 Off : 00238 *** ⁽³⁾ : Error type
SEARCH SELECTION (SEARCH TYPE)	<Inquiry for setting information> DR,***** ⁽¹⁾ 	<Reading of menu information> RC  EX,*** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ 	***** ⁽¹⁾ : 06419 ***** ⁽²⁾ : 00000 : TIME DATE 00001 : INDEX 00002 : ALARM INDEX 00003 : ALARM SKIP 00004 : ALARM LIST *** ⁽³⁾ : Error type
SEARCH SELECTION (PLAYBACK DEVICE)	<Menu setting> DW,***** ⁽¹⁾ ***** ⁽²⁾  <Inquiry for setting information> DR,***** ⁽¹⁾ 	<Writing of menu information> RC  EX,*** ⁽³⁾ DW,***** ⁽¹⁾ ***** ⁽²⁾  <Reading of menu information> RC  EX,*** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ 	***** ⁽¹⁾ : 06006 ***** ⁽²⁾ : 00001 : MAIN 00002 : SUB *** ⁽³⁾ : Error type
SEARCH SELECTION (SELECTION CAMERA NUMBER)	†	†	***** ⁽¹⁾ : 06007 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00016 : ALL *** ⁽³⁾ : Error type

Error type : Refer to “Command receive confirmation function”.

Command codes (continued)

• RS-232C [Direct operation specification] menu setting system command form <OTHER SETTINGS> (1/2)

Commands name	Commands	Status	Notes																																																																																																																		
HDD SETTING	<Inquiry for setting information> DR,***** ⁽¹⁾	<Reading of menu information> RC EX,*** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾	***** ⁽¹⁾ : 06401 ***** ⁽²⁾ : 00000 : NORMAL 00001 : MIRRORING 00002 : PARTITION ** ⁽³⁾ : Error type																																																																																																																		
PARTITION SIZE	↑	↑	***** ⁽¹⁾ : 06402 ***** ⁽²⁾ : 00010 : 10% 00020 : 20% 00030 : 30% 00040 : 40% 00050 : 50% 00060 : 60% 00070 : 70% 00080 : 80% 00090 : 90% ** ⁽³⁾ : Error type																																																																																																																		
BOOT UP DELAY	↑	↑	***** ⁽¹⁾ : 06400 ***** ⁽²⁾ : 00010-00059 : 10S-59S ** ⁽³⁾ : Error type																																																																																																																		
Check of the condition	MD?	RC EX,*** ⁽²⁸⁾ MD,*** ⁽¹⁾ ... ** ⁽⁵⁾ ***** ⁽⁶⁾ ** ⁽⁷⁾ ... ** ⁽²⁵⁾	<p>***⁽¹⁾ : System condition</p> <table border="0"> <tr><td>00 : Power off</td><td>01 : System change</td></tr> <tr><td>02 : Codec task start</td><td>03 : Codec system start</td></tr> <tr><td>04 : Power on</td><td>05 : CODEC system end</td></tr> <tr><td>06 : Codec task end</td><td>07 : SETTINGS menu</td></tr> <tr><td>09 : SEARCH menu</td><td>0A : Device unusual situation</td></tr> <tr><td>0B : Device initialize</td><td>0C : Device reconstruction</td></tr> <tr><td>10 : Auto set up</td><td>11 : Auto set up start</td></tr> <tr><td>12 : Auto set up end</td><td>13 : System unusual situation</td></tr> <tr><td>15 : HDD USER SELF TEST</td><td>16 : HDD USER SELF TEST execution</td></tr> </table> <p>***⁽²⁾ : Key lock condition</p> <table border="0"> <tr><td>00 : Lock off</td><td>01 : Level 2</td><td>02 : Level 1</td><td>03 : Level 0</td></tr> <tr><td>04 : Level E</td><td>05 : Unlocking the password 1</td><td></td><td></td></tr> <tr><td>06 : Unlocking the password 2</td><td></td><td></td><td></td></tr> </table> <p>***⁽³⁾ : (Reserved)</p> <p>***⁽⁴⁾ : Timer condition</p> <table border="0"> <tr><td>00 : Timer off</td><td>01 : Timer on</td><td>02 : Timer error</td><td></td></tr> </table> <p>***⁽⁵⁾ : Alarm interrupt condition</p> <table border="0"> <tr><td>00 : Alarm interrupt off</td><td>01 : Alarm interrupt on</td><td></td><td></td></tr> </table> <p>*****⁽⁶⁾ : Menu condition</p> <table border="0"> <tr><td>0000 : Menu is not displayed</td><td>Except for 0000 : Menu is displayed</td><td></td><td></td></tr> </table> <p>***⁽⁷⁾ : Recording condition</p> <table border="0"> <tr><td>00 : Stop</td><td>01 : Start (from Stop)</td></tr> <tr><td>02 : Start (from execution)</td><td>04 : Recording</td></tr> <tr><td>06 : Alarm recording during stop</td><td></td></tr> <tr><td>07 : Alarm recording during recording</td><td></td></tr> <tr><td>09 : End</td><td>0A : Error</td></tr> </table> <p>***⁽⁸⁾ : Playback condition</p> <table border="0"> <tr><td>00 : Stop</td><td>01 : Start (from Stop)</td></tr> <tr><td>02 : Start (from execution)</td><td>03 : Playback (single screen)</td></tr> <tr><td>04 : Reverse playback (single screen)</td><td>05 : Playback pause (single screen)</td></tr> <tr><td>06 : Reverse playback pause (single screen)</td><td></td></tr> <tr><td>07 : Forward speed search (single screen)</td><td></td></tr> <tr><td>08 : Reverse speed search (single screen)</td><td></td></tr> <tr><td>09 : Fast forward (single screen)</td><td>0A : Rewind (single screen)</td></tr> <tr><td>0B : Playback (split screen)</td><td>0C : Reverse playback (split screen)</td></tr> <tr><td>0D : Playback pause (split screen)</td><td></td></tr> <tr><td>0E : Reverse playback pause (split screen)</td><td></td></tr> <tr><td>0F : Forward speed search (split screen)</td><td></td></tr> <tr><td>10 : Reverse speed search (split screen)</td><td></td></tr> <tr><td>11 : Fast forward (split screen)</td><td>12 : Rewind (split screen)</td></tr> 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condition</p> <table border="0"> <tr><td>00 : Stop</td><td>01 : Start (from Stop)</td><td>02 : Error</td></tr> </table> <p>***⁽¹⁵⁾ : Information acquisition condition</p> <table border="0"> <tr><td>00 : Stop</td><td>01 : Start (from Stop)</td><td>02 : Error</td></tr> </table> <p>***⁽¹⁶⁾ : Device data deletion condition</p> <table border="0"> <tr><td>00 : Stop</td><td>01 : Start (from Stop)</td><td>02 : Error</td></tr> </table> <p>***⁽¹⁷⁾ : Data reset condition</p> <table border="0"> <tr><td>00 : Stop</td><td>01 : Start (from Stop)</td><td>02 : Error</td></tr> </table> <p>***⁽¹⁸⁾ ... **⁽²⁵⁾ : (Reserved)</p> <p>***⁽²⁶⁾ : Error type</p>	00 : Power off	01 : System change	02 : Codec task start	03 : Codec system start	04 : Power on	05 : CODEC system end	06 : Codec task end	07 : SETTINGS menu	09 : SEARCH menu	0A : Device unusual situation	0B : Device initialize	0C : Device reconstruction	10 : Auto set up	11 : Auto set up start	12 : Auto set up end	13 : System unusual situation	15 : HDD USER SELF TEST	16 : HDD USER SELF TEST execution	00 : Lock off	01 : Level 2	02 : Level 1	03 : Level 0	04 : Level E	05 : Unlocking the password 1			06 : Unlocking the password 2				00 : Timer off	01 : Timer on	02 : Timer error		00 : Alarm interrupt off	01 : Alarm interrupt on			0000 : Menu is not displayed	Except for 0000 : Menu is displayed			00 : Stop	01 : Start (from Stop)	02 : Start (from execution)	04 : Recording	06 : Alarm recording during stop		07 : Alarm recording during recording		09 : End	0A : Error	00 : Stop	01 : Start (from Stop)	02 : Start (from execution)	03 : Playback (single screen)	04 : Reverse playback (single screen)	05 : Playback pause (single screen)	06 : Reverse playback pause (single screen)		07 : Forward speed search (single screen)		08 : Reverse speed search (single screen)		09 : Fast forward (single screen)	0A : Rewind (single screen)	0B : Playback (split screen)	0C : Reverse playback (split screen)	0D : Playback pause (split screen)		0E : Reverse playback pause (split screen)		0F : Forward speed search (split screen)		10 : Reverse speed search (split screen)		11 : Fast forward (split screen)	12 : Rewind (split screen)	13 : Playback (zoom)	14 : Reverse playback (zoom)	15 : Playback pause (zoom)	16 : Reverse playback pause (zoom)	17 : Forward speed search (zoom)	18 : Reverse speed search (zoom)	19 : Fast forward (zoom)	1A : Rewind (zoom)	1B : End	1C : Error	00 : Stop	01 : Start (from Stop)	02 : Start (from execution)	03 : Single screen	04 : Split screen	05 : Zoom	06 : End	07 : Error	00 : Stop	01 : Start (from Stop)	02 : Start (from execution)	03 : Execution	04 : End	05 : Error	00 : Stop	01 : Start (from Stop)	02 : Error	00 : Stop	01 : Start (from Stop)	02 : Error	00 : Stop	01 : Start (from Stop)	02 : Error	00 : Stop	01 : Start (from Stop)	02 : Error
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Error type : Refer to "Command receive confirmation function".

Command codes (continued)

• RS-232C [Direct operation specification] menu setting system command form <OTHER SETTINGS> (2/2)

Commands name	Commands	Status	Notes
ELAPSED TIME	UT*(1)? #1	RC #2 EX,**(3)UT*(1),***** #2	*(1): Device 0: SYSTEM ***** #2: Elapsed time 000000000-999999999 (hour) *(3): Error type
Registration of comment data information	COMD,**(1)**(2)***** ***** ***** #1	RC #2 EX,**(4)COMD,**(1)**(2)***** ***** ***(3) #2	*(1): Camera number 00: CH1 01: CH2 02: CH3 03: CH4 *(2): Number of comment characters (01-32) ** ... *(3): Comment *(4): Error type
Comment writing	COMS,**(1) #1	RC #2 EX,**(2)COMS,**(1) #2	*(1): Camera number 00: CH1 01: CH2 02: CH3 03: CH4 *(2): Error type
Deletion of the comment display	DC #1	RC #2 EX,**(1)DC #2	*(1): Error type

Error type : Refer to "Command receive confirmation function".

Command codes (continued)

• RS-232C Warning display (1/2)

Commands name	Commands	Status	Notes
Check of the warning display	WN1? [F1]	RC [F2] EX,★★ ⁽³²⁾ WN1★ ⁽¹⁾ ★ ⁽²⁾ ... ★ ⁽³¹⁾ [F2]	★ ⁽¹⁾ ... ★ ⁽³¹⁾ : 0 : No error display 1 : Error display ★ ⁽¹⁾ : SYSTEM ERROR ★ ⁽²⁾ : TEMP ★ ⁽³⁾ : (Reserved) ★ ⁽⁴⁾ : FAN ★ ⁽⁵⁾ : MIRROR ★ ⁽⁶⁾ : REC/SYSTEM ERROR ★ ⁽⁷⁾ : REC/RW ★ ⁽⁸⁾ : REC/REM ★ ⁽⁹⁾ : PLAY/SYSTEM ERROR ★ ⁽¹⁰⁾ ... ★ ⁽³¹⁾ : (Reserved) ★★ ⁽³²⁾ : Error type
Check of the media full warning display	WN2? [F1]	RC [F2] EX,★★ ⁽⁶⁾ WN2★ ⁽¹⁾ ★ ⁽²⁾ ... ★ ⁽⁵⁾ [F2]	★ ⁽¹⁾ ... ★ ⁽⁶⁾ : 0 : No error display 1 : Error display ★ ⁽¹⁾ : REC/FULL ★ ⁽²⁾ : REC/SUB FULL ★ ⁽³⁾ ... ★ ⁽⁶⁾ : (Reserved) ★★ ⁽⁶⁾ : Error type
Check of the NO SIGNAL condition	VN? [F1]	RC [F2] EX,★★ ⁽¹⁷⁾ VN★ ⁽¹⁾ ★ ⁽²⁾ ... ★ ⁽¹⁵⁾ ★ ⁽¹⁶⁾ [F2]	★ ⁽¹⁾ ... ★ ⁽¹⁶⁾ : 0 : Video signal is not input 1 : Detecting (video signal is not input) 2 : Detecting (video signal is input) 3 : Video signal is input ★ ⁽¹⁾ : CH1 ★ ⁽²⁾ : CH2 ★ ⁽³⁾ : CH3 ★ ⁽⁴⁾ : CH4 ★ ⁽⁵⁾ ... ★ ⁽¹⁶⁾ : (Reserved) ★★ ⁽¹⁷⁾ : Error type

Error type : Refer to "Command receive confirmation".

Command codes (continued)

• RS-232C [False operation panel] command form

Commands name	Commands	Status	Notes
POWER	KKP0 #1	RC #2 EX, ** ⁽²⁾ KKP0 #2	POWER button (Power on/off) ** ⁽²⁾ : Error type
REC/STOP	KKR #1	RC #2 EX, ** ⁽²⁾ KKR #2	REC/STOP button (Recording/Stop recording) ** ⁽²⁾ : Error type
STOP	KKB0 #1	RC #2 EX, ** ⁽²⁾ KKB0 #2	STOP button (Stop playback) ** ⁽²⁾ : Error type
PLAY	KKB1 #1	RC #2 EX, ** ⁽²⁾ KKB1 #2	PLAY button ** ⁽²⁾ : Error type
REV.PLAY	KKB2 #1	RC #2 EX, ** ⁽²⁾ KKB2 #2	REV.P button (Reverse playback) ** ⁽²⁾ : Error type
PAUSE	KKB4 #1	RC #2 EX, ** ⁽²⁾ KKB4 #2	PAUSE button (Playback pause) ** ⁽²⁾ : Error type
TIMER	KKT #1	RC #2 EX, ** ⁽²⁾ KKT #2	TIMER button (Timer on/off) ** ⁽²⁾ : Error type
ZOOM	KKI #1	RC #2 EX, ** ⁽²⁾ KKI #2	ZOOM button ** ⁽²⁾ : Error type
SPLIT/SINGLE	KKE #1	RC #2 EX, ** ⁽²⁾ KKE #2	SPLIT/SINGLE button ** ⁽²⁾ : Error type
+	KKE00 #1	RC #2 EX, ** ⁽²⁾ KKE00 #2	+ button (Channel UP) ** ⁽²⁾ : Error type
-	KKE01 #1	RC #2 EX, ** ⁽²⁾ KKE01 #2	- button (Channel DOWN) ** ⁽²⁾ : Error type
SET UP	KKM #1	RC #2 EX, ** ⁽²⁾ KKM #2	SET UP button ** ⁽²⁾ : Error type
SEARCH	KKK0 #1	RC #2 EX, ** ⁽²⁾ KKK0 #2	SEARCH button ** ⁽²⁾ : Error type
JOG ↑	KKJ00 #1	RC #2 EX, ** ⁽²⁾ KKJ00 #2	JOG ↑ button (Moves cursor upward etc.) ** ⁽²⁾ : Error type
JOG ↓	KKJ01 #1	RC #2 EX, ** ⁽²⁾ KKJ01 #2	JOG ↓ button (Moves cursor downward etc.) ** ⁽²⁾ : Error type
JOG →	KKJ02 #1	RC #2 EX, ** ⁽²⁾ KKJ02 #2	JOG → button (Moves cursor rightward, etc.) ** ⁽²⁾ : Error type
JOG ←	KKJ03 #1	RC #2 EX, ** ⁽²⁾ KKJ03 #2	JOG ← button (Moves cursor leftward/ALARM INTERRUPT, etc.) ** ⁽²⁾ : Error type
ENTER	KKENR #1	RC #2 EX, ** ⁽²⁾ KKENR #2	ENTER button ** ⁽²⁾ : Error type
CLEAR	KKCLR #1	RC #2 EX, ** ⁽²⁾ KKCLR #2	CLEAR button ** ⁽²⁾ : Error type
+ (when pressing for more than 3 seconds)	KKE30 #1	RC #2 EX, ** ⁽²⁾ KKE30 #2	LOCK button ** ⁽²⁾ : Error type
- (when pressing for more than 3 seconds)	KKE31 #1	RC #2 EX, ** ⁽²⁾ KKE31 #2	WARNING RESET button ** ⁽²⁾ : Error type

Error type : Refer to "Command receive confirmation function".

Command codes (continued)

• RS-232C State transition information system

Commands name	Status	Notes
System mode	EX,AA,***** ⁽¹⁾ ^{#2}	***** ⁽¹⁾ : 0100 : Power off 0107 : <SETTINGS> menu 010A : Device unusual situation 0110 : Auto set up 0101 : System change 0109 : <SEARCH> menu 010B : Device initialize 0113 : System unusual situation 0104 : Power on 010C : Device reconstruction
Timer mode	†	***** ⁽¹⁾ : 0500 : Timer off 0501 : Timer on 0502 : Timer error
Alarm disable mode	†	***** ⁽¹⁾ : 0600 : Alarm disable off 0601 : Alarm disable on
Recording mode	†	***** ⁽¹⁾ : 0800 : Stop 0807 : Alarm recording during recording 0804 : Recording 0806 : Alarm recording during stop 080A : Recording error
Playback mode	†	***** ⁽¹⁾ : 0900 : Stop 0904 : Reverse playback (single screen) 0906 : Reverse playback pause (single screen) 0908 : Reverse speed search (single screen) 090A : Rewind (single screen) 090C : Reverse playback (split screen) 090E : Reverse playback pause (split screen) 0910 : Reverse speed search (split screen) 0912 : Rewind (split screen) 0914 : Reverse playback (zoom) 0916 : Reverse playback pause (zoom) 0918 : Reverse speed search (zoom) 091A : Rewind (zoom) 0903 : Playback (single screen) 0905 : Playback pause (single screen) 0907 : Forward speed search (single screen) 0909 : Fast forward (single screen) 090B : Playback (split screen) 090D : Playback pause (split screen) 090F : Forward speed search (split screen) 0911 : Fast forward (split screen) 0913 : Playback (zoom) 0915 : Playback pause (zoom) 0917 : Forward speed search (zoom) 0919 : Fast forward (zoom) 091C : Playback error
Display mode	†	***** ⁽¹⁾ : 0A07 : Display error
Motion detection mode	†	***** ⁽¹⁾ : 0B05 : Motion detection error
Acquisition of the information mode	†	***** ⁽¹⁾ : 1000 : Done 1002 : Acquisition error
Data deletion mode	†	***** ⁽¹⁾ : 2000 : Done 2002 : Deletion error
Device control mode	†	***** ⁽¹⁾ : 0F00 : Stop 0F02 : Device control error
Data reset mode	†	***** ⁽¹⁾ : 3000 : Done 3002 : Data reset error
NO SIGNAL condition information	EX,AB11,***** ⁽¹⁾ ***** ***** ⁽²⁾ ^{#2}	***** ⁽¹⁾ : Output the NO SIGNAL condition (3 : Signal is output, 2 : Detecting signal (signal is output) 1 : Detecting signal (signal is not output) 0 : Signal is not output) for 4 channels when the condition is changed. This information is effective only for the camera which is recording and indefinite for the camera which is not recording. ** * ** ⁽²⁾ : (Reserved)
Error warning information	EX,AB,*** ⁽¹⁾ ^{#2}	** ⁽¹⁾ : 12 : REC/RW 13 : REC/SYSTEM ERROR
High temperature	EX,AB,*** ⁽¹⁾ ^{#2}	** ⁽¹⁾ : 81 : Detect high temperature
Data alteration error information	EX,AB51,*** ⁽¹⁾ ^{#2}	** ⁽¹⁾ : 01-04 : Camera number
Fan alarm	EX,AB71 ^{#2}	
Renewal of alarm number information	EX,AC11,***** ⁽¹⁾ ^{#2}	***** ⁽¹⁾ : 00001-09999 : Renewal of alarm number (Output when the alarm number is renewed.)
Position information	EX,AC,*** ⁽¹⁾ ,*** ⁽²⁾ ^{#2}	** ⁽¹⁾ : 12 : Recording position of MAIN HDD 13 : Recording position of SUB HDD *** ⁽²⁾ : 000-100 (%)
Alarm input information	EX,BA,***** ***** ⁽¹⁾ ,** ⁽²⁾ ,** ⁽³⁾ ,** ⁽⁴⁾ , ** ⁽⁵⁾ ,** ⁽⁶⁾ ,** ⁽⁷⁾ ^{#2}	** * ** ⁽¹⁾ : Input port conditions (AL1-4, EMG) (AL5-16 : Reserved) 0 : Others 1 : Input ON ** ⁽²⁾ : Year ** ⁽³⁾ : Month ** ⁽⁴⁾ : Day ** ⁽⁵⁾ : Time ** ⁽⁶⁾ : Minute ** ⁽⁷⁾ : Second
Recording start information	EX,BB,***** ***** ⁽¹⁾ ,** ⁽²⁾ ,** ⁽³⁾ ,** ⁽⁴⁾ , ** ⁽⁵⁾ ,** ⁽⁶⁾ ,** ⁽⁷⁾ ,***** ⁽⁸⁾ ^{#2}	** * ** ⁽¹⁾ : Camera conditions (AL1-4, EMG) (AL5-16 : Reserved) 0 : Others 1 : Start of normal recording 2 : Start of alarm recording ** ⁽²⁾ : Year ** ⁽³⁾ : Month ** ⁽⁴⁾ : Day ** ⁽⁵⁾ : Time ** ⁽⁶⁾ : Minute ** ⁽⁷⁾ : Second ***** ⁽⁸⁾ : Alarm number (00001-10000) 65535 : Not alarm

Command codes (continued)

◆ Character code list

(When LANGUAGE is set to other than “РУССКИЙ”.)

Character	.	(Space)	!	"	#	\$	%	&	'	()	*	+
Character code	00012	00032	00033	00034	00035	00036	00037	00038	00039	00040	00041	00042	00043

Character	,	-	.	/	:	;	<	=	>	?	@		
Character code	00044	00045	00046	00047	00058	00059	00060	00061	00062	00063	00064		

Number	0	1	2	3	4	5	6	7	8	9		
Character code	00048	00049	00050	00051	00052	00053	00054	00055	00056	00057		

Alphabet	A	B	C	D	E	F	G	H	I	J	K	L	M
Character code	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	00076	00077

Alphabet	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Character code	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090

Alphabet	a	b	c	d	e	f	g	h	i	j	k	l	m
Character code	00097	00098	00099	00100	00101	00102	00103	00104	00105	00106	00107	00108	00109

Alphabet	n	o	p	q	r	s	t	u	v	w	x	y	z
Character code	00110	00111	00112	00113	00114	00115	00116	00117	00118	00119	00120	00121	00122

Alphabet	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì
Character code	00192	00193	00194	00195	00196	00197	00198	00199	00200	00201	00202	00203	00204

Alphabet	Í	Î	Ï	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù
Character code	00205	00206	00207	00208	00209	00210	00211	00212	00213	00214	00215	00216	00217

Alphabet	Ú	Û	Ü	Ý	Þ	à	á	â	ã	ä	å	æ	
Character code	00218	00219	00220	00221	00222	00223	00224	00225	00226	00227	00228	00229	00230

Alphabet	ç	è	é	ê	ë	ì	í	î	ï	ð	ñ	ò	ó
Character code	00231	00232	00233	00234	00235	00236	00237	00238	00239	00240	00241	00242	00243

Alphabet	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ	
Character code	00244	00245	00246	00247	00248	00249	00250	00251	00252	00253	00254	00255	

(When LANGUAGE is set to “РУССКИЙ”.)

Character	.	(Space)	!	"	#	\$	%	&	'	()	*	+
Character code	00012	00032	00033	00034	00035	00036	00037	00038	00039	00040	00041	00042	00043

Character	,	-	.	/	:	;	<	=	>	?	@		
Character code	00044	00045	00046	00047	00058	00059	00060	00061	00062	00063	00064		

Number	0	1	2	3	4	5	6	7	8	9		
Character code	00048	00049	00050	00051	00052	00053	00054	00055	00056	00057		

Alphabet	A	B	C	D	E	F	G	H	I	J	K	L	M
Character code	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	00076	00077

Alphabet	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Character code	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090

Alphabet	a	b	c	d	e	f	g	h	i	j	k	l	m
Character code	00097	00098	00099	00100	00101	00102	00103	00104	00105	00106	00107	00108	00109

Alphabet	n	o	p	q	r	s	t	u	v	w	x	y	z
Character code	00110	00111	00112	00113	00114	00115	00116	00117	00118	00119	00120	00121	00122

Alphabet	А	Б	В	Г	Д	Е	Ж	З	И	Й	К	Л	М
Character code	01040	01041	01042	01043	01044	01045	01046	01047	01048	01049	01050	01051	01052

Alphabet	Н	О	П	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ
Character code	01053	01054	01055	01056	01057	01058	01059	01060	01061	01062	01063	01064	01065

Alphabet	Ъ	Ы	Ь	Э	Ю	Я	а	б	в	г	д	е	ж
Character code	01066	01067	01068	01069	01070	01071	01072	01073	01074	01075	01076	01077	01078

Alphabet	з	и	й	к	л	м	н	о	п	р	с	т	у
Character code	01079	01080	01081	01082	01083	01084	01085	01086	01087	01088	01089	01090	01091

Alphabet	ф	х	ц	ч	ш	щ	ъ	ы	ь	э	ю	я	
Character code	01092	01093	01094	01095	01096	01097	01098	01099	01100	01101	01102	01103	

Comment search

Characters (character strings) input from a PC connected to this unit by RS-232C connection can be recorded as comments along with the video/audio. Recorded comments can be displayed during playback. Furthermore, you can specify the comments and search the scene of which the specified comments are recorded.

■ Comment search command code

Commands name	Commands	Status	Notes
Comment search	PB***(1)***(2)***(3)***(4)***(5) ***** ***** ***** ⁽⁶⁾ [F1]	RC [F2] EX,***(8)PB***(1)***(2)***(3)***(4) ***(5)***** ***** ⁽⁶⁾ ,***(7) [F2]	***(1): Comment search (80) ***(2): Search direction 00 : Forward 01 : Reverse ***(3): number of search times (01-99) ***(4): Camera number 00 : CH1 01 : CH2 02 : CH3 03 : CH4 ***(5): Number of comment characters (01-32) ** ... ** ⁽⁶⁾ : Comment ***(7): Playback mode number (Refer to "Playback" command.) ***(8): Error type
Registration of comment data information	COMD,***(1)***(2)***** ***** ***** ⁽³⁾ [F1]	RC [F2] EX,***(4)COMD,***(1)***(2)***** ***** ***** ⁽³⁾ [F2]	***(1): Camera number 00 : CH1 01 : CH2 02 : CH3 03 : CH4 ***(2): Number of comment characters (01-32) ** ... ** ⁽³⁾ : Comment
Comment writing	COMS,***(1) [F1]	RC [F2] EX,***(2)COMS,***(1) [F2]	***(4): Error type ***(1): Camera number 00 : CH1 01 : CH2 02 : CH3 03 : CH4 ***(2): Error type
Deletion of the comment display	DC [F1]	RC [F2] EX,***(1)DC [F2]	***(1): Error type

Error type : Refer to "Command receive confirmation".

■ Characters available for comment search

Alphabet	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Character	[Space]	!	"	#	\$	%	&	'	()	*	+	,	-	.	/	:	;	<	=	>	?	@			
Number	0	1	2	3	4	5	6	7	8	9																

■ Sample operation

1) Record character string "ABCDEF" as a comment along with the video.

The operation is performed on a PC.

1. Set the character (or characters string) to be recorded;
2. Record the set character(s).

By using the COMS command, characters which have been set once can be recorded any number of times. To record a different character, set the character by using the COMD command.

🕒 Up to 32 characters can be input.

2) Display the recorded comment.

1. Select <SETTINGS> → "CAMERA DISPLAY" in the <TIME DATE/DISPLAY SETTINGS> screen. Display "COMMENT" and determine the desired setting.

🕒 The number of characters displayed on the screen is: all 32 for single screen, first 10 for SPLIT4 screen.

3) Skip to the scene with characters "ABCDEF".

The operation is performed on a PC.

After comment search, playback is performed in the single screen display.

⚠ Comment search can be performed even when playback is stopped, during still frame playback, playback, or recording.

⚠ The unit will fast forward or rewind until it finds the character string, then shift into still frame mode.

⚠ Comment search may take a long time as the process involves searching through all the data.

🕒 If the unit does not find the character string, it will stop automatically.

