



DIGITAL RECORDER

RS-232C COMMUNICATION CAPABILITY

OPERATION MANUAL

MODEL

DX-TL950E series

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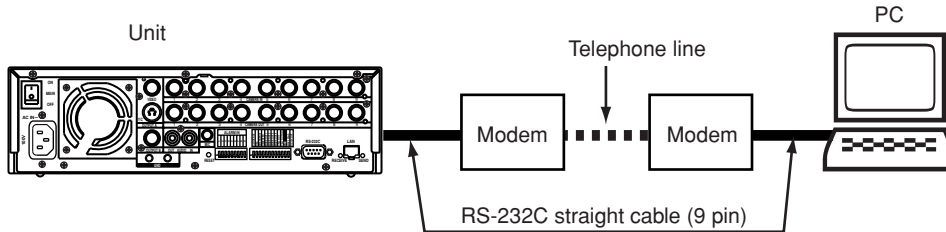
Connecting to a personal computer

■ Connecting with a personal computer

This unit can be remote 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.

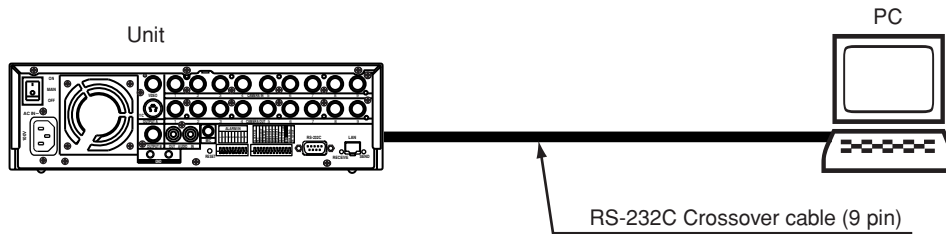
◆ Connection via modem

Please use RS-232C Straight cable (9pin) to connect a modem with 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.

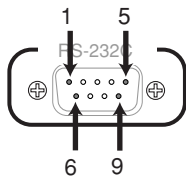


◆ Direct connection

Please use RS-232C Crossover cable (9pin) to connect a modem with a personal computer. RS-232C Crossover cable differs depending on the personal computer.



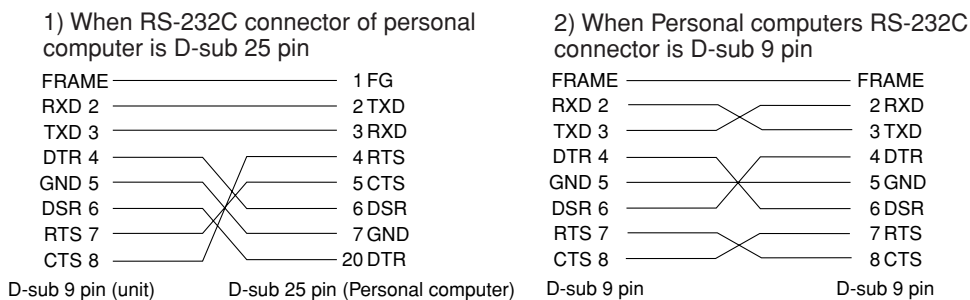
◆ RS-232C connector



| Pin NO. | Letters | Transmission Contents | Pin NO. | Letters | Transmission Contents |
|---------|---------|-----------------------|---------|---------|-----------------------|
| 2 | RXD | Receiving Data | 6 | DSR | Data Set Ready |
| 3 | TXD | Transmission 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. Perform settings so that they are the same as the connecting modem or PC.

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

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

“REMOTE B” : Status information for the command is returned from the unit.

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

Available settings on unit

| Synchronization | Name on Menu | Asynchronous |
|---|-------------------|---------------------------|
| 1 Transmission rate at the data received/sent | TRANSMISSION RATE | 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 | 1 BIT/2 BIT |
| 5 Line feed setting | DELIMITER | CR/CR•LF |

Perform the following settings on the PC

| Synchronization | Name on Menu |
|--------------------|---------------|
| 1 X control | Not available |
| 2 S parameter | Not available |
| 3 CS-RS hand-shake | Available |

■ 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 systems

◆ Direct operation specification

Control and settings are performed by checking execution, errors, etc., from the status returned from the unit for the command sent from the PC. 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 to be sent from the PC for each operation such as power on/off, record, playback, etc., for the unit.

Menu setting type commands are to be specified for 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 from the status returned from the unit.

1) Command execution result, error type, command name, 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 there is change is status.)

Example) Turn the Unit ON.

| 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 command sent from a PC, the content 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 record, 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)

◆ Quasi operation panel command type

Operations can be specified from a PC as if operating the actual operation panel of the unit while viewing the output video. Each command is a command type that corresponds to the operation button of the unit.

• Input confirmation type

Send commands as if operate the buttons, JOG dial and SHUTTLE ring of the operation panel. 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) Recorded data is played back using still-frames.

| Command from PC | Replied status code from unit to PC | Meaning |
|-----------------|-------------------------------------|---|
| KKP0 #1 | | Indicates that a command equivalent to “push 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 “push 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 “push 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 When using shuttle operation commands, be sure to send the shuttle center command after sending the operation command. Otherwise, the shuttle operation will be kept until the shuttle center command is sent.

① For control type commands such as record, 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.

◆ Status condition change information function

Example) Status condition change information of system mode and POWER ON is issued.

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

When setting “MODE” in the <RS-232C> screen to “REMOTE A”, every status information is returned from the unit. When setting to “REMOTE B”, status information for the command is returned from the unit. When setting to “REMOTE C”, status 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 | Execute Error |
| 02 | Execute Unable Error |
| 03 | Incorrect command |
| 04 | Incorrect parameter |
| 05 | Executing the command |
| 06 | Not corresponding |

Command codes (continued)

◆ Details of the numbers

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

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

* : Indicates one number or a character.

◆ Command code

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

General (1/3)

| 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 08 : COPY 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 command 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 index search 43 : Forward alarm index search 44 : Forward alarm skip search 52 : Reverse index search 53 : Reverse alarm index search 54 : Reverse alarm 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)***** #1 | RC #2 EX,**(2)PB***(1)***** #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 time (01 ~ 99) *(4) : Camera number 00 : CH1 01 : CH2 02 : CH3 03 : CH4 04 : CH5 05 : CH6 06 : CH7 07 : CH8 08 : CH9 *(5) : Number of comment character (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 (2/3)

| Commands name | Commands | Status | Notes |
|-----------------------------|---|--|--|
| OUTPUT A switcher | SW*** ⁽¹⁾ [F1] | RC [F2] EX, ** ⁽²⁾ SW*** ⁽¹⁾ , ** ⁽³⁾ [F2] | *** ⁽¹⁾ : OUTPUT A switcher command 0100 : Single screen sequential 0101 : CH1 0102 : CH2 0103 : CH3 0104 : CH4 0105 : CH5 0106 : CH6 0107 : CH7 0108 : CH8 0109 : CH9 0180 : Zoom cancel 0181 : Zoom (X1) 0182 : Twice zoom (X2) 0184 : Four times zoom (X4) 0191 : Zoom move up 0192 : Zoom move down 0193 : Zoom move right 0194 : Zoom move left 0400 : Split 4 screen sequential 0401 : Split 4(a) 0402 : Split 4(b) 0403 : Split 4(c) 0901 : Split 9 ** ⁽²⁾ : Error type <Case of during playback> ** ⁽³⁾ : Playback mode number during playback, display mode number during another condition. Playback mode number : (Refer to "Playback" command.) <Case of another condition> ** ⁽³⁾ : Display mode number 03 : Single screen 04 : Split/sequential screen 05 : Zoom 07 : Display error |
| OUTPUT B switcher | TW*** ⁽¹⁾ [F1] | RC [F2] EX, ** ⁽²⁾ TW*** ⁽¹⁾ , ** ⁽³⁾ [F2] | *** ⁽¹⁾ : OUTPUT B switcher command 0100 : Single screen sequential 0101 : CH1 0102 : CH2 0103 : CH3 0104 : CH4 0105 : CH5 0106 : CH6 0107 : CH7 0108 : CH8 0109 : CH9 0400 : Split 4 screen sequential 0401 : Split 4(a) 0402 : Split 4(b) 0403 : Split 4(c) 0901 : Split 9 ** ⁽²⁾ : Error type ** ⁽³⁾ : Display mode number 03 : Single screen 04 : Split/sequential screen 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 interrupt mode number 00 : Alarm interrupt off 01 : Alarm interrupt on |
| Copy start | CP* ⁽¹⁾ ** ⁽²⁾ [F1] | RC [F2] EX, ** ⁽⁴⁾ CP* ⁽¹⁾ ** ⁽²⁾ , ** ⁽³⁾ [F2] | * ⁽¹⁾ : Copy start 1 : Start ** ⁽²⁾ : Direction 00 : MAIN HDD→CFC 01 : SUB HDD→CFC ** ⁽³⁾ : Copy mode number 00 : Stop 02 : Execute 04 : Copy error ** ⁽⁴⁾ : Error type |
| Copy stop | CP* ⁽¹⁾ [F1] | RC [F2] EX, ** ⁽²⁾ CP* ⁽¹⁾ , ** ⁽³⁾ [F2] | * ⁽¹⁾ : Copy stop 0 : Stop ** ⁽²⁾ : Error type ** ⁽³⁾ : Copy mode number (Refer to "Copy start" command.) |
| Restore start | RP* ^{(1)**⁽²⁾} [F1] | RC [F2] EX, ** ⁽⁴⁾ RP* ^{(1)**⁽²⁾} , ** ⁽³⁾ [F2] | * ⁽¹⁾ : Restore start 1 : Start ** ⁽²⁾ : Direction 06 : CFC→MAIN HDD ** ⁽³⁾ : Restore mode number 00 : Stop 02 : Execute 04 : Restore error ** ⁽⁴⁾ : Error type |
| Restore stop | RP* ⁽¹⁾ [F1] | RC [F2] EX, ** ⁽²⁾ RP* ⁽¹⁾ , ** ⁽³⁾ [F2] | * ⁽¹⁾ : Restore stop 0 : Stop ** ⁽²⁾ : Error type ** ⁽³⁾ : Restore mode number (Refer to "Restore start" command.) |
| Acquire 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⁾ : Acquire the recorded period 01 : MAIN 02 : SUB 04 : CFC ** ⁽²⁾ : Error type ** ⁽³⁾ : Acquire the information mode number 00 : End 02 : Acquire information 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 alarm list |

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

Command codes (continued)

• RS-232C [Direct operation specification] operation setting system command form General (3/3)

| Commands name | Commands | Status | Notes |
|--|--|---|---|
| Warning reset | WC★ ⁽¹⁾ #1 | RC #2 EX,★★ ⁽²⁾ WC★ ⁽¹⁾ ,★★ ⁽³⁾ #2 | ★ ⁽¹⁾ : Warning reset 0: Reset (only display) ★★ ⁽²⁾ : Error type ★★ ⁽³⁾ : System mode number (Refer to "Power" command.) |
| Menu initializing, loading or saving | MC★ ⁽¹⁾ #1 | RC #2 EX,★★ ⁽²⁾ MC★ ⁽¹⁾ ,★★ ⁽³⁾ #2 | ★ ⁽¹⁾ : Menu initializing, loading or saving 0: Initialize 1: Load from CFC 2: Save to CFC ★★ ⁽²⁾ : Error type ★★ ⁽³⁾ : System mode number (Refer to "Power" command.) |
| Delete the data | CL★★ ⁽¹⁾ #1 | RC #2 EX,★★ ⁽²⁾ CL★★ ⁽¹⁾ ,★★ ⁽³⁾ #2 | ★★ ⁽¹⁾ : Delete the data 01: MAIN 02: SUB 04: CFC ★★ ⁽²⁾ : Error type ★★ ⁽³⁾ : Data delete mode number 00: End 02: Error |
| OUTPUT A | UBA #1 | RC #2 EX,★★ ⁽²⁾ UBA #2 | ★★ ⁽²⁾ : Error type |
| OUTPUT B | UBB #1 | RC #2 EX,★★ ⁽²⁾ UBB #2 | ★★ ⁽²⁾ : Error type |
| Control command for MODE OUT "LAN" setting | ML★ ⁽¹⁾ ★ ⁽²⁾ #1 | RC #2 EX,★★ ⁽³⁾ ML★ ⁽¹⁾ ,★ ⁽²⁾ #2 | ★ ⁽¹⁾ : Control command for MODE OUT "LAN" setting 1: MODE OUT 1 2: MODE OUT 2 3: MODE OUT 3 4: MODE OUT 4 5: MODE OUT 5 ★ ⁽²⁾ : 0: OFF 1: 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 <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 00005 : MONTH 00006 : DAY 00007 : TIME (hour) 00008 : TIME (minute) 00009 : TIME (second) ***** ⁽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 |
| DAYLIGHT SAVING | ↑ | ↑ | ***** ⁽¹⁾ : 00010 ***** ⁽²⁾ : 00000 : OFF 00001 : AUTO ** ⁽³⁾ : Error type |
| DAYLIGHT SETTING | ↑ | ↑ | ***** ⁽¹⁾ : 05688 : IN - DAY OF WEEK 05689 : OUT - DAY OF 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 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 CH5 : 00075 ~ 00090 CH6 : 00091 ~ 00106 CH7 : 00107 ~ 00122 CH8 : 00123 ~ 00138 CH9 : 00139 ~ 00154 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⁾ : 00043 : Default position 00047 : Right 1 00051 : Right 2 00055 : Right 3 00059 : Right 4 00063 : Right 5 00067 : Right 6 00071 : Right 7 00075 : Right 8 00079 : Right 9 00083 : Right 10 00087 : Right 11 00091 : Right 12 00095 : Right 13 00099 : Right 14 00103 : Right 15 00107 : Right 16 00111 : Right 17 00115 : Right 18 00119 : Right 19 00123 : Right 20 ** ⁽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> (1/2)

| Commands name | Commands | Status | Notes |
|--|--|--|--|
| OUTPUT A SPLIT 4 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(a) : 00305 : Top - Left 00306 : Top - Right 00307 : Bottom - Left 00308 : Bottom - Right SPLIT4(b) : 00313 : Top - Left 00314 : Top - Right 00315 : Bottom - Left 00316 : Bottom - Right SPLIT4(c) : 00321 : Top - Left 00322 : Top - Right 00323 : Bottom - Left 00324 : Bottom - Right ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00004 : CH5 00005 : CH6 00006 : CH7 00007 : CH8 00008 : CH9 ** ⁽³⁾ : Error type |
| OUTPUT A SPLIT 9 SCREEN SETTING | ↑ | ↑ | ***** ⁽¹⁾ : SPLIT9 : 00337 : Top - Left 00338 : Top - Center 00339 : Top - Right 00340 : Middle - Left 00341 : Middle - Center 00342 : Middle - Right 00343 : Bottom - Left 00344 : Bottom - Center 00345 : Bottom - Right ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00004 : CH5 00005 : CH6 00006 : CH7 00007 : CH8 00008 : CH9 ** ⁽³⁾ : Error type |
| OUTPUT A SEQUENCE SETTING (1 ~ 9) | ↑ | ↑ | ***** ⁽¹⁾ : 00405 : SEQUENCE 1 00406 : SEQUENCE 2 00407 : SEQUENCE 3 00408 : SEQUENCE 4 00409 : SEQUENCE 5 00410 : SEQUENCE 6 00411 : SEQUENCE 7 00412 : SEQUENCE 8 00413 : SEQUENCE 9 ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00004 : CH5 00005 : CH6 00006 : CH7 00007 : CH8 00008 : CH9 00255 : - ** ⁽³⁾ : Error type |
| OUTPUT A SEQUENCE SETTING (SPLIT4) | ↑ | ↑ | ***** ⁽¹⁾ : 00421 ***** ⁽²⁾ : 00000 : a 00001 : ab 00002 : abc ** ⁽³⁾ : Error type |
| OUTPUT A SEQUENCE SETTING (TIME) | ↑ | ↑ | ***** ⁽¹⁾ : 00423 : SEQUENCE 1 00424 : SEQUENCE 2 00425 : SEQUENCE 3 00426 : SEQUENCE 4 00427 : SEQUENCE 5 00428 : SEQUENCE 6 00429 : SEQUENCE 7 00430 : SEQUENCE 8 00431 : SEQUENCE 9 00439 : SPLIT4 ***** ⁽²⁾ : 00001 ~ 00030 (second) ** ⁽³⁾ : Error type |
| OUTPUT A INTERLACE | ↑ | ↑ | ***** ⁽¹⁾ : 00300 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type |
| OUTPUT B ON/OFF | ↑ | ↑ | ***** ⁽¹⁾ : 00493 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type |
| COVERT CAMERA SETTING | ↑ | ↑ | ***** ⁽¹⁾ : 00477 : CH1 00478 : CH2 00479 : CH3 00480 : CH4 00481 : CH5 00482 : CH6 00483 : CH7 00484 : CH8 00485 : CH9 ***** ⁽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 <MPX DISPLAY SETTINGS> (2/2)

| Commands name | Commands | Status | Notes |
|--|--|--|--|
| OUTPUT B SPLIT 4 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(a) : 00309 : Top - Left 00310 : Top - Right 00311 : Bottom - Left 00312 : Bottom - Right SPLIT4(b) : 00317 : Top - Left 00318 : Top - Right 00319 : Bottom - Left 00320 : Bottom - Right SPLIT4(c) : 00325 : Top - Left 00326 : Top - Right 00327 : Bottom - Left 00328 : Bottom - Right ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00004 : CH5 00005 : CH6 00006 : CH7 00007 : CH8 00008 : CH9 ** ⁽³⁾ : Error type |
| OUTPUT B SPLIT 9 SCREEN SETTING | ↑ | ↑ | ***** ⁽¹⁾ : SPLIT9 : 00346 : Top - Left 00347 : Top - Center 00348 : Top - Right 00349 : Middle - Left 00350 : Middle - Center 00351 : Middle - Right 00352 : Bottom - Left 00353 : Bottom - Center 00354 : Bottom - Right ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00004 : CH5 00005 : CH6 00006 : CH7 00007 : CH8 00008 : CH9 ** ⁽³⁾ : Error type |
| OUTPUT B SEQUENCE SETTING (1 ~ 9) | ↑ | ↑ | ***** ⁽¹⁾ : 00441 : SEQUENCE 1 00442 : SEQUENCE 2 00443 : SEQUENCE 3 00444 : SEQUENCE 4 00445 : SEQUENCE 5 00446 : SEQUENCE 6 00447 : SEQUENCE 7 00448 : SEQUENCE 8 00449 : SEQUENCE 9 ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00004 : CH5 00005 : CH6 00006 : CH7 00007 : CH8 00008 : CH9 00255 : - ** ⁽³⁾ : Error type |
| OUTPUT B SEQUENCE SETTING (SPLIT4) | ↑ | ↑ | ***** ⁽¹⁾ : 00457 ***** ⁽²⁾ : 00000 : a 00001 : ab 00002 : abc ** ⁽³⁾ : Error type |
| OUTPUT B SEQUENCE SETTING (TIME) | ↑ | ↑ | ***** ⁽¹⁾ : 00459 : SEQUENCE 1 00460 : SEQUENCE 2 00461 : SEQUENCE 3 00462 : SEQUENCE 4 00463 : SEQUENCE 5 00464 : SEQUENCE 6 00465 : SEQUENCE 7 00466 : SEQUENCE 8 00467 : SEQUENCE 9 00475 : SPLIT4 ***** ⁽²⁾ : 00001 ~ 00030 (second) ** ⁽³⁾ : Error type |
| OUTPUT B INTERLACE | ↑ | ↑ | ***** ⁽¹⁾ : 00301 ***** ⁽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⁾ [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⁾ : 00533 ~ 00724 : CH1 00725 ~ 00916 : CH2 00917 ~ 01108 : CH3 01109 ~ 01300 : CH4 01301 ~ 01492 : CH5 01493 ~ 01684 : CH6 01685 ~ 01876 : CH7 01877 ~ 02068 : CH8 02069 ~ 02260 : CH9 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type |
| SENSITIVITY | ↑ | ↑ | ***** ⁽¹⁾ : 00501 : CH1 00502 : CH2 00503 : CH3 00504 : CH4 00505 : CH5 00506 : CH6 00507 : CH7 00508 : CH8 00509 : CH9 ***** ⁽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 00521 : CH5 00522 : CH6 00523 : CH7 00524 : CH8 00525 : CH9 ***** ⁽²⁾ : 00001 ~ 00192 (point) ** ⁽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> (1/2)

| Commands name | Commands | Status | Notes |
|---|--|--|--|
| RECORD SETTING (PPS) for normal 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⁾ : 03703 : CH1 03704 : CH2 03705 : CH3 03706 : CH4 03707 : CH5 03708 : CH6 03709 : CH7 03710 : CH8 03711 : CH9 ***** ⁽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 normal recording | ↑ | ↑ | ***** ⁽¹⁾ : 03735 : CH1 03736 : CH2 03737 : CH3 03738 : CH4 03739 : CH5 03740 : CH6 03741 : CH7 03742 : CH8 03743 : CH9 ***** ⁽²⁾ : 00000 : SUPER 00001 : HIGH 00002 : STD 00003 : BASIC 00004 : LONG ** ⁽³⁾ : Error type |
| RECORD SETTING (A-PPS) for normal recording | ↑ | ↑ | ***** ⁽¹⁾ : 03719 : CH1 03720 : CH2 03721 : CH3 03722 : CH4 03723 : CH5 03724 : CH6 03725 : CH7 03726 : CH8 03727 : CH9 ***** ⁽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 normal recording | ↑ | ↑ | ***** ⁽¹⁾ : 03751 : CH1 03752 : CH2 03753 : CH3 03754 : CH4 03755 : CH5 03756 : CH6 03757 : CH7 03758 : CH8 03759 : CH9 ***** ⁽²⁾ : 00000 : SUPER 00001 : HIGH 00002 : STD 00003 : BASIC 00004 : LONG ** ⁽³⁾ : Error type |
| Alarm type for normal recording | ↑ | ↑ | ***** ⁽¹⁾ : 05683 ***** ⁽²⁾ : 00001 : ALARM CH 00002 : ALARM PLUS 00003 : ALARM25 |
| ALARM REC DURATION for normal recording | ↑ | ↑ | ***** ⁽¹⁾ : 03700 ***** ⁽²⁾ : 00000 : MANUAL 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 ** ⁽³⁾ : Error type |
| PRE ALARM REC for normal recording | ↑ | ↑ | ***** ⁽¹⁾ : 05678 ***** ⁽²⁾ : 00000 : 0S(OFF) 00001 ~ 00060 : 1S ~ 60S 00090 : 90S 00120 : 120S 00150 : 150S 00180 : 180S ** ⁽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> (2/2)

| Commands name | Commands | Status | Notes |
|--|--|--|---|
| ALARM SETTING (RECORD CAMERA) for normal 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⁾ : 04238 ~ 04246 : ALARM 1 - RECORD CAMERA 1 ~ 9 04254 ~ 04262 : ALARM 2 - RECORD CAMERA 1 ~ 9 04270 ~ 04278 : ALARM 3 - RECORD CAMERA 1 ~ 9 04286 ~ 04294 : ALARM 4 - RECORD CAMERA 1 ~ 9 04302 ~ 04310 : ALARM 5 - RECORD CAMERA 1 ~ 9 04318 ~ 04326 : ALARM 6 - RECORD CAMERA 1 ~ 9 04334 ~ 04342 : ALARM 7 - RECORD CAMERA 1 ~ 9 04350 ~ 04358 : ALARM 8 - RECORD CAMERA 1 ~ 9 04366 ~ 04374 : ALARM 9 - RECORD CAMERA 1 ~ 9 04494 ~ 04502 : EMR (Emergency) - RECORD CAMERA 1 ~ 9 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type |
| ALARM SETTING (TRIGGER) for normal recording | † | † | ***** ⁽¹⁾ : 05598 : ALARM 1 05599 : ALARM 2 05600 : ALARM 3 05601 : ALARM 4 05602 : ALARM 5 05603 : ALARM 6 05604 : ALARM 7 05605 : ALARM 8 05606 : ALARM 9 ***** ⁽²⁾ : 00000 : MD/EXT 00001 : MD 00002 : EXT 00003 : MD&EXT ** ⁽³⁾ : Error type |
| MOTION DET REC | † | † | ***** ⁽¹⁾ : 05952 : RECORD SETTINGS (Normal recording) 05953 : REC MODE A (Timer recording) 05954 : REC MODE B (Timer recording) 05955 : REC MODE C (Timer recording) 05956 : REC MODE D (Timer recording) ***** ⁽²⁾ : 00000 : NORMAL 00001 : ALARM ** ⁽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> (1/4)

| 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⁾ : 00000 : P1 00001 : P2 00002 : P3 ** ⁽³⁾ : Error type |
| TIMER PROGRAM | <Menu setting> DW01,** ⁽¹⁾ ***** ⁽²⁾ ***** ⁽³⁾ ***** ⁽⁴⁾ ***** ⁽⁵⁾ ***** ⁽⁶⁾ ***** ⁽⁷⁾ ***** ⁽⁸⁾ [F1] <Inquiry for setting information> DR01,** ⁽¹⁾ [F1] | <Writing of menu information> RC [F2] EX,*** ⁽⁹⁾ DW01,** ⁽¹⁾ ***** ⁽²⁾ ***** ⁽³⁾ ... ***** ⁽⁸⁾ [F2] <Reading of menu information> RC [F2] EX,*** ⁽⁹⁾ DW01,** ⁽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 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 (Selected pattern) 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 00003 : ALARM25 ** ⁽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> (2/4)

| Commands name | Commands | Status | Notes |
|--|--|--|--|
| RECORD SETTING A ~ D (PPS) 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⁾ : 03982 : A-CH1 03983 : A-CH2 03984 : A-CH3 03985 : A-CH4 03986 : A-CH5 03987 : A-CH6 03988 : A-CH7 03989 : A-CH8 03990 : A-CH9 03998 : B-CH1 03999 : B-CH2 04000 : B-CH3 04001 : B-CH4 04002 : B-CH5 04003 : B-CH6 04004 : B-CH7 04005 : B-CH8 04006 : B-CH9 04014 : C-CH1 04015 : C-CH2 04016 : C-CH3 04017 : C-CH4 04018 : C-CH5 04019 : C-CH6 04020 : C-CH7 04021 : C-CH8 04022 : C-CH9 04030 : D-CH1 04031 : D-CH2 04032 : D-CH3 04033 : D-CH4 04034 : D-CH5 04035 : D-CH6 04036 : D-CH7 04037 : D-CH8 04038 : D-CH9 ***** ⁽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 ~ D (GRADE) for timer recording | ↑ | ↑ | ***** ⁽¹⁾ : 04110 : A-CH1 04111 : A-CH2 04112 : A-CH3 04113 : A-CH4 04114 : A-CH5 04115 : A-CH6 04116 : A-CH7 04117 : A-CH8 04118 : A-CH9 04126 : B-CH1 04127 : B-CH2 04128 : B-CH3 04129 : B-CH4 04130 : B-CH5 04131 : B-CH6 04132 : B-CH7 04133 : B-CH8 04134 : B-CH9 04142 : C-CH1 04143 : C-CH2 04144 : C-CH3 04145 : C-CH4 04146 : C-CH5 04147 : C-CH6 04148 : C-CH7 04149 : C-CH8 04150 : C-CH9 04158 : D-CH1 04159 : D-CH2 04160 : D-CH3 04161 : D-CH4 04162 : D-CH5 04163 : D-CH6 04164 : D-CH7 04165 : D-CH8 04166 : D-CH9 ***** ⁽²⁾ : 00000 : SUPER 00001 : HIGH 00002 : STD 00003 : BASIC 00004 : LONG ** ⁽³⁾ : Error type |
| RECORD SETTING A ~ D (A-PPS) for timer recording | ↑ | ↑ | ***** ⁽¹⁾ : 04046 : A-CH1 04047 : A-CH2 04048 : A-CH3 04049 : A-CH4 04050 : A-CH5 04051 : A-CH6 04052 : A-CH7 04053 : A-CH8 04054 : A-CH9 04062 : B-CH1 04063 : B-CH2 04064 : B-CH3 04065 : B-CH4 04066 : B-CH5 04067 : B-CH6 04068 : B-CH7 04069 : B-CH8 04070 : B-CH9 04078 : C-CH1 04079 : C-CH2 04080 : C-CH3 04081 : C-CH4 04082 : C-CH5 04083 : C-CH6 04084 : C-CH7 04085 : C-CH8 04086 : C-CH9 04094 : D-CH1 04095 : D-CH2 04096 : D-CH3 04097 : D-CH4 04098 : D-CH5 04099 : D-CH6 04100 : D-CH7 04101 : D-CH8 04102 : D-CH9 ***** ⁽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 |
| | | | |

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

Command codes (continued)

• RS-232C [Direct operation specification] menu setting system command form <TIMER PROGRAM SETTINGS> (3/4)

| Commands name | Commands | Status | Notes |
|--|--|--|---|
| RECORD SETTING A ~ D (A-GRADE) 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⁾ : 04174 : A-CH1 04175 : A-CH2 04176 : A-CH3 04177 : A-CH4 04178 : A-CH5 04179 : A-CH6 04180 : A-CH7 04181 : A-CH8 04182 : A-CH9 04190 : B-CH1 04191 : B-CH2 04192 : B-CH3 04193 : B-CH4 04194 : B-CH5 04195 : B-CH6 04196 : B-CH7 04197 : B-CH8 04198 : B-CH9 04206 : C-CH1 04207 : C-CH2 04208 : C-CH3 04209 : C-CH4 04210 : C-CH5 04211 : C-CH6 04212 : C-CH7 04213 : C-CH8 04214 : C-CH9 04222 : D-CH1 04223 : D-CH2 04224 : D-CH3 04225 : D-CH4 04226 : D-CH5 04227 : D-CH6 04228 : D-CH7 04229 : D-CH8 04230 : D-CH9 ***** ⁽²⁾ : 00000 : SUPER 00001 : HIGH 00002 : STD 00003 : BASIC 00004 : LONG ** ⁽³⁾ : Error type |
| ALARM REC DURATION for timer recording | † | † | ***** ⁽¹⁾ : 03701 ***** ⁽²⁾ : 00000 : MANUAL 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 ** ⁽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 : 0S(OFF) 00001 ~ 00060 : 1S ~ 60S 00090 : 90S 00120 : 120S 00150 : 150S 000180 : 180S ** ⁽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> (4/4)

| Commands name | Commands | Status | Notes |
|---|--|--|---|
| ALARM SETTING A ~ 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 ~ 04518 : ALARM 1 - RECORD CAMERA 1 ~ 9 04526 ~ 04534 : ALARM 2 - RECORD CAMERA 1 ~ 9 04542 ~ 04550 : ALARM 3 - RECORD CAMERA 1 ~ 9 04558 ~ 04566 : ALARM 4 - RECORD CAMERA 1 ~ 9 04574 ~ 04582 : ALARM 5 - RECORD CAMERA 1 ~ 9 04590 ~ 04598 : ALARM 6 - RECORD CAMERA 1 ~ 9 04606 ~ 04614 : ALARM 7 - RECORD CAMERA 1 ~ 9 04622 ~ 04630 : ALARM 8 - RECORD CAMERA 1 ~ 9 04638 ~ 04646 : ALARM 9 - RECORD CAMERA 1 ~ 9 04766 ~ 04774 : EMR (Emergency) - RECORD CAMERA 1 ~ 9 ALARM SETTING B : 04782 ~ 04790 : ALARM 1 - RECORD CAMERA 1 ~ 9 04798 ~ 04806 : ALARM 2 - RECORD CAMERA 1 ~ 9 04814 ~ 04822 : ALARM 3 - RECORD CAMERA 1 ~ 9 04830 ~ 04838 : ALARM 4 - RECORD CAMERA 1 ~ 9 04846 ~ 04854 : ALARM 5 - RECORD CAMERA 1 ~ 9 04862 ~ 04870 : ALARM 6 - RECORD CAMERA 1 ~ 9 04878 ~ 04886 : ALARM 7 - RECORD CAMERA 1 ~ 9 04894 ~ 04902 : ALARM 8 - RECORD CAMERA 1 ~ 9 04910 ~ 04918 : ALARM 9 - RECORD CAMERA 1 ~ 9 05038 ~ 05046 : EMR (Emergency) - RECORD CAMERA 1 ~ 9 ALARM SETTING C : 05054 ~ 05062 : ALARM 1 - RECORD CAMERA 1 ~ 9 05070 ~ 05078 : ALARM 2 - RECORD CAMERA 1 ~ 9 05086 ~ 05094 : ALARM 3 - RECORD CAMERA 1 ~ 9 05102 ~ 05110 : ALARM 4 - RECORD CAMERA 1 ~ 9 05118 ~ 05126 : ALARM 5 - RECORD CAMERA 1 ~ 9 05134 ~ 05142 : ALARM 6 - RECORD CAMERA 1 ~ 9 05150 ~ 05158 : ALARM 7 - RECORD CAMERA 1 ~ 9 05166 ~ 05174 : ALARM 8 - RECORD CAMERA 1 ~ 9 05182 ~ 05190 : ALARM 9 - RECORD CAMERA 1 ~ 9 05310 ~ 05318 : EMR (Emergency) - RECORD CAMERA 1 ~ 9 ALARM SETTING D : 05326 ~ 05334 : ALARM 1 - RECORD CAMERA 1 ~ 9 05342 ~ 05350 : ALARM 2 - RECORD CAMERA 1 ~ 9 05358 ~ 05366 : ALARM 3 - RECORD CAMERA 1 ~ 9 05374 ~ 05382 : ALARM 4 - RECORD CAMERA 1 ~ 9 05390 ~ 05398 : ALARM 5 - RECORD CAMERA 1 ~ 9 05406 ~ 05414 : ALARM 6 - RECORD CAMERA 1 ~ 9 05422 ~ 05430 : ALARM 7 - RECORD CAMERA 1 ~ 9 05438 ~ 05446 : ALARM 8 - RECORD CAMERA 1 ~ 9 05454 ~ 05462 : ALARM 9 - RECORD CAMERA 1 ~ 9 05582 ~ 05590 : EMR (Emergency) - RECORD CAMERA 1 ~ 9 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type |
| ALARM SETTING A ~ D (TRIGGER) for timer recording | † | † | ***** ⁽¹⁾ : ALARM SETTING A : 05614 : ALARM 1 05615 : ALARM 2 05616 : ALARM 3 05617 : ALARM 4 05618 : ALARM 5 05619 : ALARM 6 05620 : ALARM 7 05621 : ALARM 8 05622 : ALARM 9 ALARM SETTING B : 05630 : ALARM 1 05631 : ALARM 2 05632 : ALARM 3 05633 : ALARM 4 05634 : ALARM 5 05635 : ALARM 6 05636 : ALARM 7 05637 : ALARM 8 05638 : ALARM 9 ALARM SETTING C : 05646 : ALARM 1 05647 : ALARM 2 05648 : ALARM 3 05649 : ALARM 4 05650 : ALARM 5 05651 : ALARM 6 05652 : ALARM 7 05653 : ALARM 8 05654 : ALARM 9 ALARM SETTING D : 05662 : ALARM 1 05663 : ALARM 2 05664 : ALARM 3 05665 : ALARM 4 05666 : ALARM 5 05667 : ALARM 6 05668 : ALARM 7 05669 : ALARM 8 05670 : ALARM 9 ***** ⁽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 <INITIAL SET UP/INFORMATION> (1/2)

| Commands name | Commands | Status | Notes |
|------------------------|--|--|---|
| HDD REPEAT REC MAIN | <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⁾ : 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 |
| SEQUENCE PLAY | ↑ | ↑ | ***** ⁽¹⁾ : 05703 ***** ⁽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 00006 : MOTION 00009 : ALARM 00010 : LAN ** ⁽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 (Device) | ↑ | ↑ | ***** ⁽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 |
| HDD MAIN FULL | ↑ | ↑ | ***** ⁽¹⁾ : 05724 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type |
| HDD SUB FULL | ↑ | ↑ | ***** ⁽¹⁾ : 05725 ***** ⁽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 <INITIAL SET UP/INFORMATION> (2/2)

| Commands name | Commands | Status | Notes |
|------------------------------|--|--|---|
| RS-232C MODE | <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⁾ : 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 : РУССКИЙИ 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⁾ [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⁾ : Search time 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⁾ [F1] | <Reading of menu information> RC [F2] EX,** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ [F2] | ***** ⁽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⁾ [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⁾ : 06006 ***** ⁽²⁾ : 00001 : MAIN 00002 : SUB 00004 : CFC ** ⁽³⁾ : Error type |
| SEARCH SELECTION SELECTION CAMERA NUMBER | ↑ | ↑ | ***** ⁽¹⁾ : 06007 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00004 : CH5 00005 : CH6 00006 : CH7 00007 : CH8 00008 : CH9 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 <COPY>, <RESTORE>

| Commands name | Commands | Status | Notes |
|----------------------------|--|--|--|
| COPY, RESTORE DETECTION | <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⁾ : 06016 ***** ⁽²⁾ : 00000 : MAIN HDD→CFC 00001 : SUB HDD→CFC 00006 : CFC→MAIN HDD ** ⁽³⁾ : Error type |
| COPY MODE | ↑ | ↑ | ***** ⁽¹⁾ : 06017 ***** ⁽²⁾ : 00000 : OVERWRITE 00001 : NO OVERWRITE ** ⁽³⁾ : Error type |
| COPY TRANSFER PERIOD | ↑ | ↑ | ***** ⁽¹⁾ : 06018 ***** ⁽²⁾ : 00000 : START·END 00001 : START 00002 : LATEST DATA ** ⁽³⁾ : Error type |
| COPY START, END | ↑ | ↑ | ***** ⁽¹⁾ : 06019 : START - Year 06020 : START - Month 06021 : START - Day 06022 : START - Hour 06023 : START - Minute 06024 : START - Second 06025 : END - Year 06026 : END - Month 06027 : END - Day 06028 : END - Hour 06029 : END - Minute 06030 : END - Second ***** ⁽²⁾ : Year : 00001 ~ 00099 Month : 00001 ~ 00012 Day : 00001 ~ 00031 Hour : 00000 ~ 00023 Minute : 00000 ~ 00059 Second : 00000 ~ 00059 ** ⁽³⁾ : Error type |
| RESTORE MODE | ↑ | ↑ | ***** ⁽¹⁾ : 06031 ***** ⁽²⁾ : 00000 : OVERWRITE 00001 : NO OVERWRITE ** ⁽³⁾ : Error type |
| RESTORE TRANSFER PERIOD | ↑ | ↑ | ***** ⁽¹⁾ : 06032 ***** ⁽²⁾ : 00000 : START·END 00001 : START 00002 : LATEST DATA ** ⁽³⁾ : Error type |
| RESTORE START, END | ↑ | ↑ | ***** ⁽¹⁾ : 06033 : START - Year 06034 : START - Month 06035 : START - Day 06036 : START - Hour 06037 : START - Minute 06038 : START - Second 06039 : END - Year 06040 : END - Month 06041 : END - Day 06042 : END - Hour 06043 : END - Minute 06044 : END - Second ***** ⁽²⁾ : Year : 00001 ~ 00099 Month : 00001 ~ 00012 Day : 00001 ~ 00031 Hour : 00000 ~ 00023 Minute : 00000 ~ 00059 Second : 00000 ~ 00059 ** ⁽³⁾ : Error type |
| | | | |

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

Command codes (continued)

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

| Commands name | Commands | Status | Notes |
|---------------------|---|---|---|
| HDD SETTING | <Inquiry for setting information> DR,***** ⁽¹⁾ [F1] | <Reading of menu information> RC [F2] EX,*** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ [F2] | ***** ⁽¹⁾ : 06401 ***** ⁽²⁾ : 00000 : NORMAL 00002 : PARTITION ** ⁽³⁾ : Error type 00001 : MIRRORING |
| 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 |
| Check the condition | MD? [F1] | RC [F2] EX,*** ⁽²⁶⁾ MD,*** ⁽¹⁾ ... ** ⁽⁵⁾ ***** ⁽⁶⁾ ** ⁽⁷⁾ ... ** ⁽²⁵⁾ [F2] | ** ⁽¹⁾ : System condition 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 08 : COPY 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 ** ⁽²⁾ : Key lock condition 00 : Lock off 01 : Level 2 02 : Level 1 03 : Level 0 04 : Level E 05 : Unlock the password 1 06 : Unlock the password 2 ** ⁽³⁾ : Remote/local condition 00 : Off ** ⁽⁴⁾ : Timer condition 00 : Timer off 01 : Timer on 02 : Timer error ** ⁽⁵⁾ : Alarm interrupt condition 00 : Alarm interrupt off 01 : Alarm interrupt on ** ⁽⁶⁾ : Menu condition 0000 : Menu is not displayed Except for 0000 : Menu is displayed ** ⁽⁷⁾ : Recording condition 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 ** ⁽⁸⁾ : Playback condition 00 : Standby 01 : Start (from Standby) 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 ** ⁽⁹⁾ : Display condition 00 : Standby 01 : Start (from Standby) 02 : Start (from execution) 03 : Single screen 04 : Split screen 05 : Zoom 06 : End 07 : Error ** ⁽¹⁰⁾ : Motion detection condition 00 : Standby 01 : Start (from Standby) 02 : Start (from execution) 03 : Execution 04 : End 05 : Error |

(To be continued on the next page)

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

Command codes (continued)

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

| Commands name | Commands | Status | Notes |
|--|---|---|--|
| Check the condition (continued) | MD? #1 | RC #2 EX, ** ⁽²⁶⁾ MD, ** ⁽¹⁾ ... ** ⁽⁵⁾ *** ⁽⁶⁾ ** ⁽⁷⁾ ... ** ⁽²⁵⁾ #2 | ** ⁽¹¹⁾ : Reserved ** ⁽¹²⁾ : Copy condition 00 : Standby 01 : Start (from Standby) 02 : Execution 03 : End 04 : Error ** ⁽¹³⁾ : Restore condition 00 : Standby 01 : Start (from Standby) 02 : Execution 03 : End 04 : Error ** ⁽¹⁴⁾ : Reserved ** ⁽¹⁵⁾ : Acquire information condition 00 : Standby 01 : Start (from Standby) 02 : Error ** ⁽¹⁶⁾ : Delete device condition 00 : Standby 01 : Start (from Standby) 02 : Error ** ⁽¹⁷⁾ : Reserved ** ⁽¹⁸⁾ : OUTPUT B display condition 00 : Standby 01 : Start (from Standby) 02 : Start (from execution) 03 : Single screen 04 : Split screen 06 : End 07 : Error ** ⁽¹⁹⁾ ... ** ⁽²⁵⁾ : Reserved ** ⁽²⁶⁾ : Error type |
| ELAPSED TIME | UT* ⁽¹⁾ ? #1 | RC #2 EX, ** ⁽³⁾ UT* ⁽¹⁾ , ***** ⁽²⁾ #2 | * ⁽¹⁾ : Device 0 : SYSTEM ***** ⁽²⁾ : Elapsed time 000000000 ~ 999999999 (hour) ** ⁽³⁾ : Error type |
| Registration of comment data information | COMD, ** ⁽¹⁾ ** ⁽²⁾ ***** ***** ***** ⁽³⁾ #1 | RC #2 EX, ** ⁽⁴⁾ COMD, ** ⁽¹⁾ ** ⁽²⁾ ***** ***** ** ⁽³⁾ #2 | ** ⁽¹⁾ : Camera number 00 : CH1 01 : CH2 02 : CH3 03 : CH4 04 : CH5 05 : CH6 06 : CH7 07 : CH8 08 : CH9 ** ⁽²⁾ : Number of comment characters (01 ~ 32) ** ... ** ⁽³⁾ : Comment ** ⁽⁴⁾ : Error type |
| Write comment | COMS, ** ⁽¹⁾ #1 | RC #2 EX, ** ⁽²⁾ COMS, ** ⁽¹⁾ #2 | ** ⁽¹⁾ : Camera number 00 : CH1 01 : CH2 02 : CH3 03 : CH4 04 : CH5 05 : CH6 06 : CH7 07 : CH8 08 : CH9 ** ⁽²⁾ : Error type |
| Delete 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 (2/2)

| Commands name | Commands | Status | Notes |
|------------------------------------|---------------------|--|---|
| Check the condition (continued) | MD? $\overline{M1}$ | RC $\overline{R2}$ EX, $\star\star^{(26)}$ MD, $\star\star^{(1)}$... $\star\star^{(5)}$ $\star\star\star\star^{(6)}$ $\star\star^{(7)}$... $\star\star^{(25)}$ $\overline{R2}$ | <p>$\star\star^{(8)}$: Playback condition</p> <ul style="list-style-type: none"> 00 : Standby 01 : Start (from Standby) 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 <p>$\star\star^{(9)}$: Display condition</p> <ul style="list-style-type: none"> 00 : Standby 02 : Start (from execution) 04 : Split screen 06 : End 01 : Start (from Standby) 03 : Single screen 05 : Zoom 07 : Error <p>$\star\star^{(10)}$: Motion detection condition</p> <ul style="list-style-type: none"> 00 : Standby 02 : Start (from execution) 04 : End 01 : Start (from Standby) 03 : Execution 05 : Error <p>$\star\star^{(11)}$: Reserved</p> <p>$\star\star^{(12)}$: Copy condition</p> <ul style="list-style-type: none"> 00 : Standby 02 : Execution 04 : Error 01 : Start (from Standby) 03 : End <p>$\star\star^{(13)}$: Restore condition</p> <ul style="list-style-type: none"> 00 : Standby 02 : Execution 04 : Error 01 : Start (from Standby) 03 : End <p>$\star\star^{(14)}$: Reserved</p> <p>$\star\star^{(15)}$: Acquire information condition</p> <ul style="list-style-type: none"> 00 : Standby 02 : Error 01 : Start (from Standby) <p>$\star\star^{(16)}$: Delete device condition</p> <ul style="list-style-type: none"> 00 : Standby 02 : Error 01 : Start (from Standby) <p>$\star\star^{(17)}$: Reserved</p> <p>$\star\star^{(18)}$: OUTPUT B display condition</p> <ul style="list-style-type: none"> 00 : Standby 02 : Start (from execution) 04 : Split screen 07 : Error 01 : Start (from Standby) 03 : Single screen 06 : End <p>$\star\star^{(19)}$... $\star\star^{(25)}$: Reserved</p> <p>$\star\star^{(26)}$: Error type</p> |
| | | | |

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

Command codes (continued)

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

| Commands name | Commands | Status | Notes |
|-----------------------------|---|--|--|
| POWER | KKP0 #F1 KKP1 #F1 KKP2 #F1 | RC #2EX, **^(2)KKP0 #F2 RC #2EX, **^(2)KKP1 #F2 RC #2EX, **^(2)KKP2 #F2 | POWER button (Power on/off) Power on for change mode Power on for Auto set up **^(2) : Error type |
| REC/STOP | KKR0 #F1 KKR1 #F1 | RC #2EX, **^(2)KKR0 #F2 RC #2EX, **^(2)KKR1 #F2 | REC/STOP button (Recording) REC/STOP button (Stop recording) **^(2) : Error type |
| STOP | KKB0 #F1 | RC #2EX, **^(2)KKB0 #F2 | STOP button (Stop playback) **^(2) : Error type |
| PLAY | KKB1 #F1 | RC #2EX, **^(2)KKB1 #F2 | PLAY button (Playback) **^(2) : Error type |
| REV.PLAY | KKB2 #F1 | RC #2EX, **^(2)KKB2 #F2 | REV.P button (Reverse playback) **^(2) : Error type |
| PAUSE | KKB4 #F1 | RC #2EX, **^(2)KKB4 #F2 | PAUSE button (Playback pause) **^(2) : Error type |
| TIMER | KKT0 #F1 KKT1 #F1 | RC #2EX, **^(2)KKT0 #F2 RC #2EX, **^(2)KKT1 #F2 | TIMER button (Timer on) TIMER button (Timer off) **^(2) : Error type |
| ZOOM | KKZ #F1 | RC #2EX, **^(2)KKZ #F2 | ZOOM button **^(2) : Error type |
| SPLIT/SEQUENCE | KKE #F1 | RC #2EX, **^(2)KKE #F2 | SPLIT/SEQUENCE button **^(2) : Error type |
| CAMERA NUMBER (1 ~ 9) | KKD01 #F1 KKD02 #F1 KKD03 #F1 KKD04 #F1 KKD05 #F1 KKD06 #F1 KKD07 #F1 KKD08 #F1 KKD09 #F1 | RC #2EX, **^(2)KKD01 #F2 RC #2EX, **^(2)KKD02 #F2 RC #2EX, **^(2)KKD03 #F2 RC #2EX, **^(2)KKD04 #F2 RC #2EX, **^(2)KKD05 #F2 RC #2EX, **^(2)KKD06 #F2 RC #2EX, **^(2)KKD07 #F2 RC #2EX, **^(2)KKD08 #F2 RC #2EX, **^(2)KKD09 #F2 | CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8 CH9 **^(2) : Error type |
| LOCK | KKL0 #F1 | RC #2EX, **^(2)KKL0 #F2 | LOCK button (Simple lock) **^(2) : Error type |
| SET UP | KKM #F1 | RC #2EX, **^(2)KKM #F2 | SET UP button **^(2) : Error type |
| COPY | KKC #F1 | RC #2EX, **^(2)KKC #F2 | COPY button **^(2) : Error type |
| SEARCH | KKK0 #F1 | RC #2EX, **^(2)KKK0 #F2 | SEARCH button **^(2) : Error type |
| WARNING RESET | KKW0 #F1 KKW5 #F1 | RC #2EX, **^(2)KKW0 #F2 RC #2EX, **^(2)KKW5 #F2 | WARNING RESET button WARNING RESET button (5 seconds pressing) **^(2) : Error type |
| ALARM INTERRUPT | KKA #F1 | RC #2EX, **^(2)KKA #F2 | ALARM INTERRUPT button **^(2) : Error type |
| JOG | KKJ0 #F1 KKJ1 #F1 | RC #2EX, **^(2)KKJ0 #F2 RC #2EX, **^(2)KKJ1 #F2 | JOG (right turn) JOG (left turn) **^(2) : Error type |
| SHUTTLE | KKS00 #F1 KKS01 #F1 KKS02 #F1 KKS03 #F1 KKS04 #F1 KKS11 #F1 KKS12 #F1 KKS13 #F1 KKS14 #F1 | RC #2EX, **^(2)KKS00 #F2 RC #2EX, **^(2)KKS01 #F2 RC #2EX, **^(2)KKS02 #F2 RC #2EX, **^(2)KKS03 #F2 RC #2EX, **^(2)KKS04 #F2 RC #2EX, **^(2)KKS11 #F2 RC #2EX, **^(2)KKS12 #F2 RC #2EX, **^(2)KKS13 #F2 RC #2EX, **^(2)KKS14 #F2 | SHUTTLE (center) SHUTTLE (right 1) Send the SHUTTLE (center) command SHUTTLE (right 2) before send the these command. SHUTTLE (right 3) SHUTTLE (right 4) SHUTTLE (left 1) SHUTTLE (left 2) SHUTTLE (left 3) SHUTTLE (left 4) **^(2) : Error type |
| OUTPUT A/OUTPUT B SELECT | KKZ1 #F1 | RC #2EX, **^(2)KKZ1 #F2 | ZOOM button (1 second pressing or longer) **^(2) : Error type |

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

Command codes (continued)

• RS-232C Status condition change information system

| Commands name | Status | Notes |
|-------------------------------------|------------------------------------|---|
| System mode | EX,AA,★★★(1) [F2] | ★★★(1): 0100 : Power off 0104 : Power on 0108 : COPY menu 010A : Device unusual situation 010C : Device reconstruction 0113 : System unusual situation 0101 : System change 0107 : SETTINGS menu 0109 : SEARCH menu 010B : Device initialize 0110 : Auto set up |
| Timer mode | † | ★★★(1): 0500 : Timer off 0502 : Timer error 0501 : Timer on |
| Alarm interrupt mode | † | ★★★(1): 0600 : Alarm interrupt off 0601 : Alarm interrupt on |
| Recording mode | † | ★★★(1): 0800 : Stop 0806 : Alarm recording during stop 080A : Recording error 0804 : Recording 0807 : Alarm recording during recording |
| 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 |
| Copy mode | † | ★★★(1): 0D00 : Stop 0D02 : Execute 0D04 : Copy error |
| Restore mode | † | ★★★(1): 0E00 : Stop 0E02 : Execute 0E04 : Restore error |
| Acquire the information mode | † | ★★★(1): 1000 : End 1002 : Acquire information error |
| Data delete mode | † | ★★★(1): 2000 : End 2002 : Data delete error |
| OUTPUT B Display mode | † | ★★★(1): 4007 : Display error |
| Inform the NO SIGNAL condition | EX,AB11,★★★★★★★★★★★ ★★★(1) [F2] | ★★...★★(1): Output the NO SIGNAL condition (3 : Having signal, 2 : Judge having signal 1 : Judge not having signal, 0 : Not having signal) about 9CH when the camera which is recording effectively when the condition changes. But this information of the camera which is not recording is invalid. |
| Inform the error warning | EX,AB,★★(1) [F2] | ★★(1): 12 : REC/RW 13 : REC/SYSTEM ERROR 32 : COPY/RW 33 : COPY/SYSTEM ERROR 34 : COPY/OVER (HDD recording has overtaken copy recording and copy recording has stopped.) 35 : COPY/EW 36 : COPY/OVER (HDD recording is about to overtake copy recording.) 42 : REST/RW 43 : REST/SYSTEM ERROR |
| High temperature | EX,AB,★★(1) [F2] | ★★(1): 81 : Detect high temperature 82 : Shut-down by high temperature |
| Inform the data falsification error | EX,AB51,★★(1) [F2] | ★★(1): 01 ~ 09 : Camera number |
| Fan alarm | EX,AB71 [F2] | |
| Inform the renewal of alarm number | EX,AC11,★★★★(1) [F2] | ★★★★(1): 00001 ~ 09999 : Renewal of alarm number (Output when the alarm number is renewed.) |
| Inform the position | EX,AC,★★(1),★★★(2) [F2] | ★★(1): 12 : MAIN HDD recording position 32 : COPY device recording position ★★★(2) : 000 ~ 100 (%) 13 : SUB HDD recording position 42 : RESTORE device recording position |

Command codes (continued)

◆ Character code list

(When LANGUAGE is selected except for “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 |
| Character | 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 |
| Character | 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 |
| Character | Ú | Û | Ü | Ý | Þ | ß | à | á | â | ã | ä | å | æ |
| Character code | 00218 | 00219 | 00220 | 00221 | 00222 | 00223 | 00224 | 00225 | 00226 | 00227 | 00228 | 00229 | 00230 |
| Character | 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 |
| Character | 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 selected 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 |
| Character | 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 |
| Character | 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 |
| Character | 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 |
| Character | 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 |
| Character | 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) inputted 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, recorded comments can be specified for search so that the video with the comment can be played back from the beginning.

■ Comment search command code

| Commands name | Commands | Status | Notes |
|--|--|--|---|
| 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 time (01 ~ 99) ** ⁽⁴⁾ : Camera number 00 : CH1 01 : CH2 02 : CH3 03 : CH4 04 : CH5 05 : CH6 06 : CH7 07 : CH8 08 : CH9 ** ⁽⁵⁾ : Number of comment character (01 ~ 32) ** ... ** ⁽⁶⁾ : Comment ** ⁽⁷⁾ : Playback mode number (Refer to "Playback" command.) ** ⁽⁸⁾ : Error type |
| Registration of comment data information | COMD,** ⁽¹⁾ ** ⁽²⁾ ***** ***** ***** ⁽³⁾ #1 | RC #2 EX,** ⁽⁴⁾ COMD,** ⁽¹⁾ ** ⁽²⁾ ***** ***** ** ⁽³⁾ #2 | ** ⁽¹⁾ : Camera number 00 : CH1 01 : CH2 02 : CH3 03 : CH4 04 : CH5 05 : CH6 06 : CH7 07 : CH8 08 : CH9 ** ⁽²⁾ : Number of comment characters (01 ~ 32) ** ... ** ⁽³⁾ : Comment ** ⁽⁴⁾ : Error type |
| Write comment | COMS,** ⁽¹⁾ #1 | RC #2 EX,** ⁽²⁾ COMS,** ⁽¹⁾ #2 | ** ⁽¹⁾ : Camera number 00 : CH1 01 : CH2 02 : CH3 03 : CH4 04 : CH5 05 : CH6 06 : CH7 07 : CH8 08 : CH9 ** ⁽²⁾ : Error type |
| Delete the comment display | DC #1 | RC #2 EX,** ⁽¹⁾ DC #2 | ** ⁽¹⁾ : Error type |

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

■ Characters can be used 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 selected 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, use the COMD command.

➡ Up to 32 characters can be inputted.

2) Display the recorded comment.

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

➡ The number of characters displayed on the screen : all 32 for single screen, first 10 for SPLIT4, and first 6 for SPLIT9.

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

The operation is performed on a PC.

After comment search, playback is performed using 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 searches may be time-consuming as the process involves searching through all the data.

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

