
DIGITAL RECORDER

RS-232C COMMUNICATION CAPACITY

OPERATION MANUAL

MODEL

DX-TL2500E series

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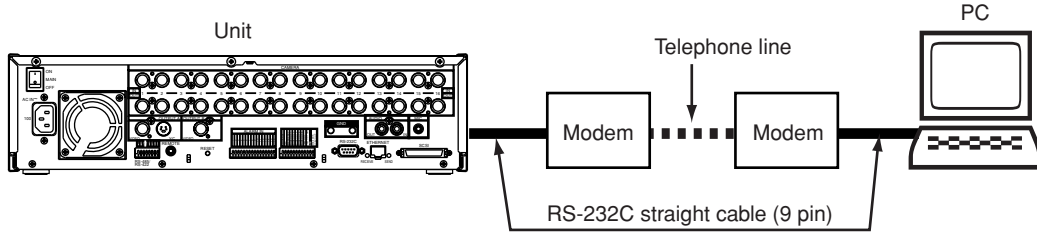
Connecting to a personal computer

■ 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.

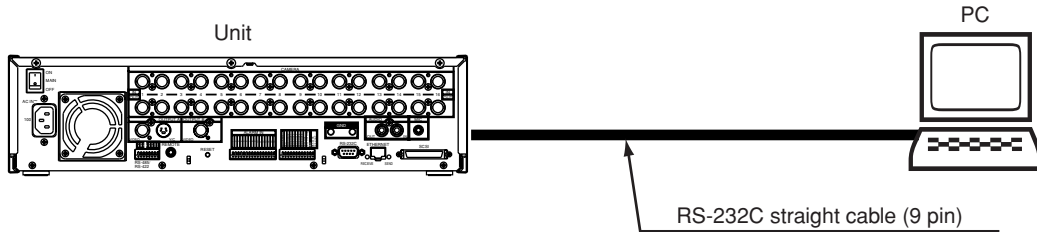
◆ Connection via modem

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.

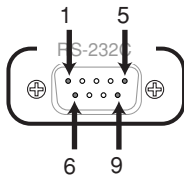


◆ Direct connection

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

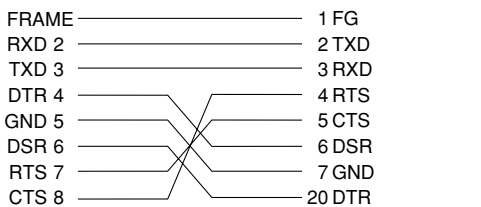


Pin NO.	Letters	Transmission Contents	Pin NO.	Letters	Transmission Contents
2	RXD	Receiving Data	6	DSR	Data Set Ready
3	TXD	Transmission Data	7	RTS	Request To Send
4	DTR	Data Terminal Ready	8	CTS	Clear To Send
5	GND	Signal Ground			

◆ RS-232C cable

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

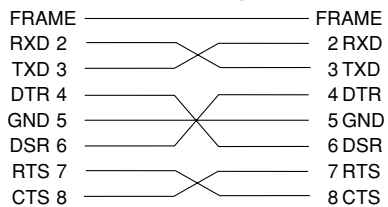
1) When RS-232C connector of personal computer is D-sub 25 pin



D-sub 9 pin (unit)

D-sub 25 pin (Personal computer)

2) When Personal computers RS-232C connector is D-sub 9 pin



D-sub 9 pin

D-sub 9 pin

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 in 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)

◆ False 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 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)***** #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,**(6)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 09 : CH10 10 : CH11 11 : CH12 12 : CH13 13 : CH14 14 : CH15 15 : CH16 *(5): Number of comment character (00 ~ 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]	<p>****⁽¹⁾: OUTPUT A switcher command</p> <p>0100 : Single screen sequential</p> <p>0101 : CH1 0102 : CH2 0103 : CH3 0104 : CH4</p> <p>0105 : CH5 0106 : CH6 0107 : CH7 0108 : CH8</p> <p>0109 : CH9 0110 : CH10 0111 : CH11 0112 : CH12</p> <p>0113 : CH13 0114 : CH14 0115 : CH15 0116 : CH16</p> <p>0180 : Zoom cancel 0181 : Zoom (X1)</p> <p>0182 : Twice zoom (X2) 0184 : Four times zoom (X4)</p> <p>0191 : Zoom move above 0192 : Zoom move down</p> <p>0193 : Zoom move right 0194 : Zoom move left</p> <p>0400 : Split 4 screen sequential</p> <p>0401 : Split 4(a) 0402 : Split 4(b) 0403 : Split 4(c) 0404 : Split 4(d)</p> <p>0900 : Split 9 screen sequential</p> <p>0901 : Split 9(a) 0902 : Split 9(b)</p> <p>1601 : Split 16</p> <p>**⁽²⁾: Error type</p> <p><Case of during playback></p> <p>**⁽³⁾: Playback mode number during playback, display mode number during another condition.</p> <p>Playback mode number : (Refer to "Playback" command.)</p> <p><Case of another condition></p> <p>**⁽³⁾: Display mode number</p> <p>03 : Single screen 04 : Split/sequential screen</p> <p>05 : Zoom 07 : Display error</p>
OUTPUT B switcher	TW**** ⁽¹⁾ [F1]	RC [F2] EX,** ⁽²⁾ TW**** ⁽¹⁾ ,** ⁽³⁾ [F2]	<p>****⁽¹⁾: OUTPUT B switcher command</p> <p>0100 : Single screen sequential</p> <p>0101 : CH1 0102 : CH2 0103 : CH3 0104 : CH4</p> <p>0105 : CH5 0106 : CH6 0107 : CH7 0108 : CH8</p> <p>0109 : CH9 0110 : CH10 0111 : CH11 0112 : CH12</p> <p>0113 : CH13 0114 : CH14 0115 : CH15 0116 : CH16</p> <p>0400 : Split 4 screen sequential</p> <p>0401 : Split 4(a) 0402 : Split 4(b) 0403 : Split 4(c) 0404 : Split 4(d)</p> <p>0900 : Split 9 screen sequential</p> <p>0901 : Split 9(a) 0902 : Split 9(b)</p> <p>1601 : Split 16</p> <p>**⁽²⁾: Error type</p> <p>**⁽³⁾: Display mode number</p> <p>03 : Single screen 04 : Split/sequential screen</p> <p>07 : Display error</p>
Timer	TM* ⁽¹⁾ [F1]	RC [F2] EX,** ⁽²⁾ TM* ⁽¹⁾ ,** ⁽³⁾ [F2]	<p>*⁽¹⁾: Timer recording ON/OFF</p> <p>0 : Timer off 1 : Timer on</p> <p>**⁽²⁾: Error type</p> <p>**⁽³⁾: Timer mode number</p> <p>00 : Timer off 01 : Timer on 02 : Timer error</p>
Alarm interrupt	AD* ⁽¹⁾ [F1]	RC [F2] EX,** ⁽²⁾ AD* ⁽¹⁾ ,** ⁽³⁾ [F2]	<p>*⁽¹⁾: Alarm interrupt setting</p> <p>0 : Alarm interrupt off 1 : Alarm interrupt on</p> <p>**⁽²⁾: Error type</p> <p>**⁽³⁾: Alarm disable mode number</p> <p>00 : Alarm disable off 01 : Alarm disable on</p>
Copy start	CP* ⁽¹⁾ ** ⁽²⁾ [F1]	RC [F2] EX,** ⁽⁴⁾ CP* ⁽¹⁾ ** ⁽²⁾ ,** ⁽³⁾ [F2]	<p>*⁽¹⁾: Copy start</p> <p>1 : Start</p> <p>**⁽²⁾: Direction</p> <p>00 : MAIN HDD→CFC 01 : SUB HDD→CFC</p> <p>02 : MAIN HDD→COPY 03 : SUB HDD→COPY</p> <p>07 : LPA HDD→CFC 08 : LPA HDD→COPY</p> <p>(07 and 08 may not set depending on the version of the firmware.)</p> <p>**⁽³⁾: Copy mode number</p> <p>00 : Stop 02 : Execute 04 : Copy error</p> <p>**⁽⁴⁾: Error type</p>
Copy stop	CP* ⁽¹⁾ [F1]	RC EX,** ⁽²⁾ CP* ⁽¹⁾ ,** ⁽³⁾ [F2]	<p>*⁽¹⁾: Copy stop</p> <p>0 : Stop</p> <p>**⁽²⁾: Error type</p> <p>**⁽³⁾: Copy mode number (Refer to "Copy start" command.)</p>
Restore start	RP* ⁽¹⁾ ** ⁽²⁾ [F1]	RC [F2] EX,** ⁽⁴⁾ RP* ⁽¹⁾ ** ⁽²⁾ ,** ⁽³⁾ [F2]	<p>*⁽¹⁾: Restore start</p> <p>1 : Start</p> <p>**⁽²⁾: Direction</p> <p>04 : ARC→MAIN HDD 05 : COPY→MAIN HDD</p> <p>06 : CFC→MAIN HDD</p> <p>**⁽³⁾: Restore mode number</p> <p>00 : Stop 02 : Execute 04 : Restore error</p> <p>**⁽⁴⁾: Error type</p>
Restore stop	RP* ⁽¹⁾ [F1]	RC EX,** ⁽²⁾ RP* ⁽¹⁾ ,** ⁽³⁾ [F2]	<p>*⁽¹⁾: Restore stop</p> <p>0 : Stop</p> <p>**⁽²⁾: Error type</p> <p>**⁽³⁾: Restore mode number (Refer to "Restore start" command.)</p>
Archive start/stop	BK* ⁽¹⁾ [F1]	RC EX,** ⁽²⁾ BK* ⁽¹⁾ ,** ⁽³⁾ [F2]	<p>*⁽¹⁾: Archive start/stop</p> <p>0 : Stop 1 : Start</p> <p>**⁽²⁾: Error type</p> <p>**⁽³⁾: Archive mode number</p> <p>00 : Stop 02 : Execute 04 : Archive error</p>

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
Acquire the recorded period	IF** ⁽¹⁾ #1	RC #2 EX,** ⁽²⁾ IF** ⁽¹⁾ ,** ⁽³⁾ ,** ⁽⁴⁾ ** ⁽⁵⁾ ** ⁽⁶⁾ ** ⁽⁷⁾ ** ⁽⁸⁾ ** ⁽⁹⁾ ** ⁽¹⁰⁾ ** ⁽¹¹⁾ ** ⁽¹²⁾ ** ⁽¹³⁾ ** ⁽¹⁴⁾ ** ⁽¹⁵⁾ ** ⁽¹⁶⁾ #2	** ⁽¹⁾ : Acquire the recorded period 01 : MAIN 02 : SUB 03 : ARCHIVE 04 : CFC 05 : COPY 07 : LPA (07 may not set depending on the version of the firmware.) ** ⁽²⁾ : Error type ** ⁽³⁾ : Acquire the information mode number 00 : Done 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
Warning reset	WC** ⁽¹⁾ #1	RC 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 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 EX,** ⁽²⁾ CL** ⁽¹⁾ ,** ⁽³⁾ #2	** ⁽¹⁾ : Delete the data 01 : Main 02 : SUB 03 : ARCHIVE 04 : CFC 05 : Copy 07 : LPA (07 may not set depending on the version of the firmware.) ** ⁽²⁾ : Error type ** ⁽³⁾ : Data delete mode number 00 : done 02 : Error
Play device	PDV** ⁽¹⁾ #1	RC EX,** ⁽²⁾ PDV** ⁽¹⁾ #2	** ⁽¹⁾ : Setting play device 01 : Main 03 : ARCHIVE 04 : CFC 05 : Copy ** ⁽²⁾ : Error type
Eject	EJ #1	RC EX,** ⁽²⁾ EJ,** ⁽¹⁾ #2	** ⁽¹⁾ : Eject mode number 00 : done 02 : Error ** ⁽²⁾ : Error type
Archive start point reset	BPR #1	RC EX,** ⁽²⁾ BPR,** ⁽¹⁾ #2	** ⁽¹⁾ : Archive start point reset mode number 00 : done 02 : Error ** ⁽²⁾ : Error type
OUTPUT A	UBA #1	RC EX,** ⁽²⁾ UBA #2	** ⁽²⁾ : Error type
OUTPUT B	UBB #1	RC EX,** ⁽²⁾ UBB #2	** ⁽²⁾ : Error type
PTZ control	PTZ** ⁽¹⁾ ** ⁽²⁾ #1	RC EX,** ⁽³⁾ PTZ** ⁽¹⁾ ** ⁽²⁾ #2	** ⁽¹⁾ : PTZ command number 10 : Pan (right) 14 : Pan (left) 18 : Tilt (up) 1C : Tilt (down) 20 : Zoom (T) 24 : Zoom (W) 28 : Focus (N) 2C : Focus (F) 30 : Iris (+) 34 : Iris (-) 38 : Stop 40 : Memorise Preset 1 41 : Memorise Preset 2 50 : Move Preset 1 51 : Move Preset 2 ** ⁽²⁾ : CH number 00 : CH1 01 : CH2 02 : CH3 03 : CH4 04 : CH5 05 : CH6 06 : CH7 07 : CH8 08 : CH9 09 : CH10 10 : CH11 11 : CH12 12 : CH13 13 : CH14 14 : CH15 15 : CH16 ** ⁽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 or OUT 00001 : AUTO or IN (The setting contents of ***** ⁽²⁾ varies depending on the version of the firmware.) *** ⁽³⁾ : Error type
DAYLIGHT SETTING	†	†	(This command may not set depending on the version of the firmware.) ***** ⁽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 CH10 : 00155 ~ 00170 CH11 : 00171 ~ 00186 CH12 : 00187 ~ 00202 CH13 : 00203 ~ 00218 CH14 : 00219 ~ 00234 CH15 : 00235 ~ 00250 CH16 : 00251 ~ 00266 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⁾ : 00048 : Default position 00052 : Right 1 00056 : Right 2 00060 : Right 3 00064 : Right 4 00068 : Right 5 00072 : Right 6 00076 : Right 7 00080 : Right 8 00084 : Right 9 00088 : Right 10 00092 : Right 11 00096 : Right 12 00100 : Right 13 00104 : Right 14 00108 : Right 15 00112 : Right 16 00116 : Right 17 00120 : Right 18 *** ⁽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> (1/3)

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 00307 : Bottom - Left SPLIT4(b) : 00313 : Top - Left 00315 : Bottom - Left SPLIT4(c) : 00321 : Top - Left 00323 : Bottom - Left SPLIT4(d) : 00329 : Top - Left 00331 : Bottom - Left ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00004 : CH5 00005 : CH6 00006 : CH7 00007 : CH8 00008 : CH9 00009 : CH10 00010 : CH11 00011 : CH12 00012 : CH13 00013 : CH14 00014 : CH15 00015 : CH16 ** ⁽³⁾ : Error type
OUTPUT A SPLIT 9 SCREEN SETTING	†	†	***** ⁽¹⁾ : SPLIT9(a) : 00337 : Top - Left 00339 : Top - Right 00341 : Middle - Center 00343 : Bottom - Left 00345 : Bottom - Right SPLIT9(b) : 00355 : Top - Left 00357 : Top - Right 00359 : Middle - Center 00361 : Bottom - Left 00363 : Bottom - Right ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00004 : CH5 00005 : CH6 00006 : CH7 00007 : CH8 00008 : CH9 00009 : CH10 00010 : CH11 00011 : CH12 00012 : CH13 00013 : CH14 00014 : CH15 00015 : CH16 ** ⁽³⁾ : Error type
OUTPUT A SPLIT 16 SCREEN SETTING	†	†	***** ⁽¹⁾ : First line : 00373 : Left 00375 : Center (right side) Second line : 00377 : Left 00379 : Center (right side) Third line : 00381 : Left 00383 : Center (right side) Fourth line : 00385 : Left 00387 : Center (right side) ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00004 : CH5 00005 : CH6 00006 : CH7 00007 : CH8 00008 : CH9 00009 : CH10 00010 : CH11 00011 : CH12 00012 : CH13 00013 : CH14 00014 : CH15 00015 : CH16 ** ⁽³⁾ : Error type
OUTPUT A SEQUENCE SETTING (1 ~ 16)	†	†	***** ⁽¹⁾ : 00405 : SEQUENCE 1 00407 : SEQUENCE 3 00409 : SEQUENCE 5 00411 : SEQUENCE 7 00413 : SEQUENCE 9 00415 : SEQUENCE 11 00417 : SEQUENCE 13 00419 : SEQUENCE 15 ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00004 : CH5 00005 : CH6 00006 : CH7 00007 : CH8 00008 : CH9 00009 : CH10 00010 : CH11 00011 : CH12 00012 : CH13 00013 : CH14 00014 : CH15 00015 : CH16 00255 : - ** ⁽³⁾ : Error type
OUTPUT A SEQUENCE SETTING (SPLIT4)	†	†	***** ⁽¹⁾ : 00421 ***** ⁽²⁾ 00000 : a 00001 : ab 00002 : abc 00003 : abcd ** ⁽³⁾ : Error type
OUTPUT A SEQUENCE SETTING (SPLIT9)	†	†	***** ⁽¹⁾ : 00422 ***** ⁽²⁾ : 00000 : a 00001 : ab ** ⁽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> (2/3)

Commands name	Commands	Status	Notes
OUTPUT A SEQUENCE SETTING (TIME)	<Menu setting> DW,***** ⁽¹⁾ ***** ⁽²⁾ [F1] <Inquiry for setting information> DR,***** ⁽¹⁾ [F7]	<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⁾ : 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 00432 : SEQUENCE 10 00433 : SEQUENCE 11 00434 : SEQUENCE 12 00435 : SEQUENCE 13 00436 : SEQUENCE 14 00437 : SEQUENCE 15 00438 : SEQUENCE 16 00439 : SPLIT4 00440 : SPLIT9 ***** ⁽²⁾ : 00001 ~ 00030 (second) *** ⁽³⁾ : Error type
OUTPUT A INTERLACE	↑	↑	***** ⁽¹⁾ : 00300 ***** ⁽²⁾ : 00000 : OFF 00001 : ON *** ⁽³⁾ : Error type
OUTPUT A SPLIT/SEQUENTIAL	↑	↑	***** ⁽¹⁾ : 00302 ***** ⁽²⁾ : 00000 : ALL 00001 : SHORT *** ⁽³⁾ : Error type
OUTPUT B ON/OFF	↑	↑	***** ⁽¹⁾ : 00493 ***** ⁽²⁾ : 00000 : OFF 00001 : ON *** ⁽³⁾ : Error type
COVERT CAMRA SETTING	↑	↑	***** ⁽¹⁾ : 00477 : CH1 00478 : CH2 00479 : CH3 00480 : CH4 00481 : CH5 00482 : CH6 00483 : CH7 00484 : CH8 00485 : CH9 00486 : CH10 00487 : CH11 00488 : CH12 00489 : CH13 00490 : CH14 00491 : CH15 00492 : CH16 ***** ⁽²⁾ : 00000 : OFF 00001 : ON *** ⁽³⁾ : Error type
ALARM DISPLAY	↑	↑	***** ⁽¹⁾ : 00304 ***** ⁽²⁾ : 00000 : OFF 00001 : ON *** ⁽³⁾ : Error type
OUTPUT B SPLIT 4 SCREEN SETTING	↑	↑	***** ⁽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 SPLIT4(d) : 00333 : Top - Left 00334 : Top - Right 00335 : Bottom - Left 00336 : Bottom - Right ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00004 : CH5 00005 : CH6 00006 : CH7 00007 : CH8 00008 : CH9 00009 : CH10 00010 : CH11 00011 : CH12 00012 : CH13 00013 : CH14 00014 : CH15 00015 : CH16 *** ⁽³⁾ : Error type
OUTPUT B SPLIT 9 SCREEN SETTING	↑	↑	***** ⁽¹⁾ : SPLIT9(a) : 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 SPLIT9(b) : 00364 : Top - Left 00365 : Top - Center 00366 : Top - Right 00367 : Middle - Left 00368 : Middle - Center 00369 : Middle - Right 00370 : Bottom - Left 00371 : Bottom - Center 00372 : Bottom - Right ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00004 : CH5 00005 : CH6 00006 : CH7 00007 : CH8 00008 : CH9 00009 : CH10 00010 : CH11 00011 : CH12 00012 : CH13 00013 : CH14 00014 : CH15 00015 : CH16 *** ⁽³⁾ : Error type

Error type : Refer to "Command receive confirmation".

Command codes (continued)







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

Commands name	Commands	Status	Notes
OUTPUT B SPLIT 16 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⁾ : 1st row : 00389 : Left 00390 : Center (left side) 00391 : Center (right side) 00392 : Right 2nd row : 00393 : Left 00394 : Center (left side) 00395 : Center (right side) 00396 : Right 3rd row : 00397 : Left 00398 : Center (left side) 00399 : Center (right side) 00400 : Right 4th row : 00401 : Left 00402 : Center (left side) 00403 : Center (right side) 00404 : Right ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00004 : CH5 00005 : CH6 00006 : CH7 00007 : CH8 00008 : CH9 00009 : CH10 00010 : CH11 00011 : CH12 00012 : CH13 00013 : CH14 00014 : CH15 00015 : CH16 ** ⁽³⁾ : Error type
OUTPUT B SEQUENCE SETTING (1 ~ 16)	↑	↑	***** ⁽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 00450 : SEQUENCE 10 00451 : SEQUENCE 11 00452 : SEQUENCE 12 00453 : SEQUENCE 13 00454 : SEQUENCE 14 00455 : SEQUENCE 15 00456 : SEQUENCE 16 ***** ⁽²⁾ : 00000 : CH1 00001 : CH2 00002 : CH3 00003 : CH4 00004 : CH5 00005 : CH6 00006 : CH7 00007 : CH8 00008 : CH9 00009 : CH10 00010 : CH11 00011 : CH12 00012 : CH13 00013 : CH14 00014 : CH15 00015 : CH16 00255 : - ** ⁽³⁾ : Error type
OUTPUT B SEQUENCE SETTING (SPLIT4)	↑	↑	***** ⁽¹⁾ : 00457 ***** ⁽²⁾ : 00000 : a 00001 : ab 00002 : abc 00003 : abcd ** ⁽³⁾ : Error type
OUTPUT B SEQUENCE SETTING (SPLIT9)	↑	↑	***** ⁽¹⁾ : 00458 ***** ⁽²⁾ : 00000 : a 00001 : ab ** ⁽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 00468 : SEQUENCE 10 00469 : SEQUENCE 11 00470 : SEQUENCE 12 00471 : SEQUENCE 13 00472 : SEQUENCE 14 00473 : SEQUENCE 15 00474 : SEQUENCE 16 00475 : SPLIT4 00476 : SPLIT9 ***** ⁽²⁾ : 00001 ~ 00030 (second) ** ⁽³⁾ : Error type
OUTPUT B INTERLACE	↑	↑	***** ⁽¹⁾ : 00301 ***** ⁽²⁾ : 00000 : OFF 00001 : ON ** ⁽³⁾ : Error type
OUTPUT B SPLIT/SEQUENTIAL	↑	↑	***** ⁽¹⁾ : 00303 ***** ⁽²⁾ : 00000 : ALL 00001 : SHORT ** ⁽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⁾  <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⁾ : 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 02261 ~ 02452 : CH10 02453 ~ 02644 : CH11 02645 ~ 02836 : CH12 02837 ~ 03028 : CH13 03029 ~ 03220 : CH14 03221 ~ 03412 : CH15 03413 ~ 03604 : CH16 ***** ⁽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 00510 : CH10 00511 : CH11 00512 : CH12 00513 : CH13 00514 : CH14 00515 : CH15 00516 : CH16 ***** ⁽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 00526 : CH10 00527 : CH11 00528 : CH12 00529 : CH13 00530 : CH14 00531 : CH15 00532 : CH16 ***** ⁽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 manual 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 03712 : CH10 03713 : CH11 03714 : CH12 03715 : CH13 03716 : CH14 03717 : CH15 03718 : CH16 ***** ⁽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 03739 : CH5 03740 : CH6 03741 : CH7 03742 : CH8 03743 : CH9 03744 : CH10 03745 : CH11 03746 : CH12 03747 : CH13 03748 : CH14 03749 : CH15 03750 : CH16 ***** ⁽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 03723 : CH5 03724 : CH6 03725 : CH7 03726 : CH8 03727 : CH9 03728 : CH10 03729 : CH11 03730 : CH12 03731 : CH13 03732 : CH14 03733 : CH15 03734 : CH16 ***** ⁽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 03755 : CH5 03756 : CH6 03757 : CH7 03758 : CH8 03759 : CH9 03760 : CH10 03761 : CH11 03762 : CH12 03763 : CH13 03764 : CH14 03765 : CH15 03766 : CH16 ***** ⁽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 00003 : ALARM25 (00003 may not set depending on the version of the firmware.) ** ⁽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 : 0S 00001 ~ 00060 : 1S ~ 60S 00090 : 90S 00120 : 120S 00150 : 150S 000180 : 180S ** ⁽³⁾ : Error type
ARCHIVE OVERWRITE	†	†	***** ⁽¹⁾ : 05705 ***** ⁽²⁾ : 00000 : ON (Overwrite) 00001 : OFF (No overwrite) ** ⁽³⁾ : Error type
ARCHIVE MEDIA AUTO EJECT	†	†	***** ⁽¹⁾ : 05707 ***** ⁽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 <RECORD SETTINGS> (2/2)

Commands name	Commands	Status	Notes
ALARM SETTING (RECORDED CAMERA) for manual 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 ~ 04253 : ALARM 1 - RECORD CAMERA 1 ~ 16 04254 ~ 04269 : ALARM 2 - RECORD CAMERA 1 ~ 16 04270 ~ 04285 : ALARM 3 - RECORD CAMERA 1 ~ 16 04286 ~ 04301 : ALARM 4 - RECORD CAMERA 1 ~ 16 04302 ~ 04317 : ALARM 5 - RECORD CAMERA 1 ~ 16 04318 ~ 04333 : ALARM 6 - RECORD CAMERA 1 ~ 16 04334 ~ 04349 : ALARM 7 - RECORD CAMERA 1 ~ 16 04350 ~ 04365 : ALARM 8 - RECORD CAMERA 1 ~ 16 04366 ~ 04381 : ALARM 9 - RECORD CAMERA 1 ~ 16 04382 ~ 04397 : ALARM 10 - RECORD CAMERA 1 ~ 16 04398 ~ 04413 : ALARM 11 - RECORD CAMERA 1 ~ 16 04414 ~ 04429 : ALARM 12 - RECORD CAMERA 1 ~ 16 04430 ~ 04445 : ALARM 13 - RECORD CAMERA 1 ~ 16 04446 ~ 04461 : ALARM 14 - RECORD CAMERA 1 ~ 16 04462 ~ 04477 : ALARM 15 - RECORD CAMERA 1 ~ 16 04478 ~ 04493 : ALARM 16 - RECORD CAMERA 1 ~ 16 04494 ~ 04509 : EMR (Emergency) - RECORD CAMERA 1 ~ 16 ***** ⁽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 05602 : ALARM 5 05603 : ALARM 6 05604 : ALARM 7 05605 : ALARM 8 05606 : ALARM 9 05607 : ALARM 10 05608 : ALARM 11 05609 : ALARM 12 05610 : ALARM 13 05611 : ALARM 14 05612 : ALARM 15 05613 : ALARM 16 ***** ⁽²⁾ : 00000 : MD/EXT 00001 : MD 00002 : EXT 00003 : MD&EXT ** ⁽³⁾ : Error type
MOTION DET REC	†	†	***** ⁽¹⁾ : 05952 : RECORD SETTINGS (Manual 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> (1/5)

Commands name	Commands	Status	Notes
SELECTED PATTERN for timer recording	<Menu setting> DW,***** ⁽¹⁾ ***** ⁽²⁾	<Writing of menu information> RC EX,*** ⁽³⁾ DW,***** ⁽¹⁾ ***** ⁽²⁾	***** ⁽¹⁾ : 03702 ***** ⁽²⁾ : 0000 : P1 00001 : P2 00002 : P3 *** ⁽³⁾ : Error type
TIMER PROGRAM	<Menu setting> DW01,*** ⁽¹⁾ ***** ⁽²⁾ ***** ⁽³⁾ ***** ⁽⁴⁾ ***** ⁽⁵⁾ ***** ⁽⁶⁾ ***** ⁽⁷⁾ ***** ⁽⁸⁾ <Inquiry for setting information> DR01,*** ⁽¹⁾	<Writing of menu information> RC EX,*** ⁽⁹⁾ DW01,*** ⁽¹⁾ ***** ⁽²⁾ ***** ⁽³⁾ ... ***** ⁽⁸⁾ <Reading of menu information> RC EX,*** ⁽⁹⁾ DW01,*** ⁽¹⁾ ***** ⁽²⁾ ***** ⁽³⁾ ... ***** ⁽⁸⁾	*** ⁽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 00016 : OVER 00032 : OVER-E 00048 : CONT 00064 : CONT-E 00255 : - - - ***** ⁽⁸⁾ : MD (Motion Detection) 00000 : OFF 00001 : ON 00255 : - *** ⁽⁹⁾ : Error type
Alarm type for timer recording	<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⁾ : 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 (00003 may not set depending on the version of the firmware.) *** ⁽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> (2/5)

Commands name	Commands	Status	Notes
RECORD SETTING A ~ 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 03986 : A-CH5 03987 : A-CH6 03988 : A-CH7 03989 : A-CH8 03990 : A-CH9 03991 : A-CH10 03992 : A-CH11 03993 : A-CH12 03994 : A-CH13 03995 : A-CH14 03996 : A-CH15 03997 : A-CH16 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 04007 : B-CH10 04008 : B-CH11 04009 : B-CH12 04010 : B-CH13 04011 : B-CH14 04012 : B-CH15 04013 : B-CH16 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 04023 : C-CH10 04024 : C-CH11 04025 : C-CH12 04026 : C-CH13 04027 : C-CH14 04028 : C-CH15 04029 : C-CH16 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 04039 : D-CH10 04040 : D-CH11 04041 : D-CH12 04042 : D-CH13 04043 : D-CH14 04044 : D-CH15 04045 : D-CH16 ***** ⁽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 04119 : A-CH10 04120 : A-CH11 04121 : A-CH12 04122 : A-CH13 04123 : A-CH14 04124 : A-CH15 04125 : A-CH16 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 04135 : B-CH10 04136 : B-CH11 04137 : B-CH12 04138 : B-CH13 04139 : B-CH14 04140 : B-CH15 04141 : B-CH16 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 04151 : C-CH10 04152 : C-CH11 04153 : C-CH12 04154 : C-CH13 04155 : C-CH14 04156 : C-CH15 04157 : C-CH16 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 04167 : D-CH10 04168 : D-CH11 04169 : D-CH12 04170 : D-CH13 04171 : D-CH14 04172 : D-CH15 04173 : D-CH16 ***** ⁽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 04055 : A-CH10 04056 : A-CH11 04057 : A-CH12 04058 : A-CH13 04059 : A-CH14 04060 : A-CH15 04061 : A-CH16 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 04071 : B-CH10 04072 : B-CH11 04073 : B-CH12 04074 : B-CH13 04075 : B-CH14 04076 : B-CH15 04077 : B-CH16 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 04087 : C-CH10 04088 : C-CH11 04089 : C-CH12 04090 : C-CH13 04091 : C-CH14 04092 : C-CH15 04093 : C-CH16 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 04103 : D-CH10 04104 : D-CH11 04105 : D-CH12 04106 : D-CH13 04107 : D-CH14 04108 : D-CH15 04109 : D-CH16 ***** ⁽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> (3/5)

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 04183 : A-CH10 04184 : A-CH11 04185 : A-CH12 04186 : A-CH13 04187 : A-CH14 04188 : A-CH15 04189 : A-CH16 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 04199 : B-CH10 04200 : B-CH11 04201 : B-CH12 04202 : B-CH13 04203 : B-CH14 04204 : B-CH15 04205 : B-CH16 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 04215 : C-CH10 04216 : C-CH11 04217 : C-CH12 04218 : C-CH13 04219 : C-CH14 04220 : C-CH15 04221 : C-CH16 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 04231 : D-CH10 04232 : D-CH11 04233 : D-CH12 04234 : D-CH13 04235 : D-CH14 04236 : D-CH15 04237 : D-CH16 ***** ⁽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 : 0S 00001 ~ 00060 : 1S ~ 60S 00090 : 90S 00120 : 120S 00150 : 150S 000180 : 180S *** ⁽³⁾ : Error type

Error type : Refer to "Command receive confirmation".

Command codes (continued)







• RS-232C [Direct operation specification] menu setting system command form <TIMER PROGRAM SETTINGS> (4/5)

Commands name	Commands	Status	Notes
ALARM SETTING A ~ D (RECORDED CAMERA) for timer recording	<p><Menu setting> DW,*****⁽¹⁾*****⁽²⁾ [E1]</p> <p><Inquiry for setting information> DR,*****⁽¹⁾ [E1]</p>	<p><Writing of menu information> RC [E2] EX,**⁽³⁾DW,*****⁽¹⁾*****⁽²⁾ [E2]</p> <p><Reading of menu information> RC [E2] EX,**⁽³⁾DR,*****⁽¹⁾*****⁽²⁾ [E2]</p>	<p>*****⁽¹⁾ :</p> <p>ALARM SETTING A :</p> <p>04510 ~ 04525 : ALARM 1 - RECORD CAMERA 1 ~ 16 04526 ~ 04541 : ALARM 2 - RECORD CAMERA 1 ~ 16 04542 ~ 04557 : ALARM 3 - RECORD CAMERA 1 ~ 16 04558 ~ 04573 : ALARM 4 - RECORD CAMERA 1 ~ 16 04574 ~ 04589 : ALARM 5 - RECORD CAMERA 1 ~ 16 04590 ~ 04605 : ALARM 6 - RECORD CAMERA 1 ~ 16 04606 ~ 04621 : ALARM 7 - RECORD CAMERA 1 ~ 16 04622 ~ 04637 : ALARM 8 - RECORD CAMERA 1 ~ 16 04638 ~ 04653 : ALARM 9 - RECORD CAMERA 1 ~ 16 04654 ~ 04669 : ALARM 10 - RECORD CAMERA 1 ~ 16 04670 ~ 04685 : ALARM 11 - RECORD CAMERA 1 ~ 16 04686 ~ 04701 : ALARM 12 - RECORD CAMERA 1 ~ 16 04702 ~ 04717 : ALARM 13 - RECORD CAMERA 1 ~ 16 04718 ~ 04733 : ALARM 14 - RECORD CAMERA 1 ~ 16 04734 ~ 04749 : ALARM 15 - RECORD CAMERA 1 ~ 16 04750 ~ 04765 : ALARM 16 - RECORD CAMERA 1 ~ 16 04766 ~ 04781 : EMR (Emergency) - RECORD CAMERA 1 ~ 16</p> <p>ALARM SETTING B :</p> <p>04782 ~ 04797 : ALARM 1 - RECORD CAMERA 1 ~ 16 04798 ~ 04813 : ALARM 2 - RECORD CAMERA 1 ~ 16 04814 ~ 04829 : ALARM 3 - RECORD CAMERA 1 ~ 16 04830 ~ 04845 : ALARM 4 - RECORD CAMERA 1 ~ 16 04846 ~ 04861 : ALARM 5 - RECORD CAMERA 1 ~ 16 04862 ~ 04877 : ALARM 6 - RECORD CAMERA 1 ~ 16 04878 ~ 04893 : ALARM 7 - RECORD CAMERA 1 ~ 16 04894 ~ 04909 : ALARM 8 - RECORD CAMERA 1 ~ 16 04910 ~ 04925 : ALARM 9 - RECORD CAMERA 1 ~ 16 04926 ~ 04941 : ALARM 10 - RECORD CAMERA 1 ~ 16 04942 ~ 04957 : ALARM 11 - RECORD CAMERA 1 ~ 16 04958 ~ 04973 : ALARM 12 - RECORD CAMERA 1 ~ 16 04974 ~ 04989 : ALARM 13 - RECORD CAMERA 1 ~ 16 04990 ~ 05005 : ALARM 14 - RECORD CAMERA 1 ~ 16 05006 ~ 05021 : ALARM 15 - RECORD CAMERA 1 ~ 16 05022 ~ 05037 : ALARM 16 - RECORD CAMERA 1 ~ 16 05038 ~ 05053 : EMR (Emergency) - RECORD CAMERA 1 ~ 16</p> <p>ALARM SETTING C :</p> <p>05054 ~ 05069 : ALARM 1 - RECORD CAMERA 1 ~ 16 05070 ~ 05085 : ALARM 2 - RECORD CAMERA 1 ~ 16 05086 ~ 05101 : ALARM 3 - RECORD CAMERA 1 ~ 16 05102 ~ 05117 : ALARM 4 - RECORD CAMERA 1 ~ 16 05118 ~ 05133 : ALARM 5 - RECORD CAMERA 1 ~ 16 05134 ~ 05149 : ALARM 6 - RECORD CAMERA 1 ~ 16 05150 ~ 05165 : ALARM 7 - RECORD CAMERA 1 ~ 16 05166 ~ 05181 : ALARM 8 - RECORD CAMERA 1 ~ 16 05182 ~ 05197 : ALARM 9 - RECORD CAMERA 1 ~ 16 05198 ~ 05213 : ALARM 10 - RECORD CAMERA 1 ~ 16 05214 ~ 05229 : ALARM 11 - RECORD CAMERA 1 ~ 16 05230 ~ 05245 : ALARM 12 - RECORD CAMERA 1 ~ 16 05246 ~ 05261 : ALARM 13 - RECORD CAMERA 1 ~ 16 05262 ~ 05277 : ALARM 14 - RECORD CAMERA 1 ~ 16 05278 ~ 05293 : ALARM 15 - RECORD CAMERA 1 ~ 16 05294 ~ 05309 : ALARM 16 - RECORD CAMERA 1 ~ 16 05310 ~ 05325 : EMR (Emergency) - RECORD CAMERA 1 ~ 16</p> <p>ALARM SETTING D :</p> <p>05326 ~ 05341 : ALARM 1 - RECORD CAMERA 1 ~ 16 05342 ~ 05357 : ALARM 2 - RECORD CAMERA 1 ~ 16 05358 ~ 05373 : ALARM 3 - RECORD CAMERA 1 ~ 16 05374 ~ 05389 : ALARM 4 - RECORD CAMERA 1 ~ 16 05390 ~ 05405 : ALARM 5 - RECORD CAMERA 1 ~ 16 05406 ~ 05421 : ALARM 6 - RECORD CAMERA 1 ~ 16 05422 ~ 05437 : ALARM 7 - RECORD CAMERA 1 ~ 16 05438 ~ 05453 : ALARM 8 - RECORD CAMERA 1 ~ 16 05454 ~ 05469 : ALARM 9 - RECORD CAMERA 1 ~ 16 05470 ~ 05485 : ALARM 10 - RECORD CAMERA 1 ~ 16 05486 ~ 05501 : ALARM 11 - RECORD CAMERA 1 ~ 16 05502 ~ 05517 : ALARM 12 - RECORD CAMERA 1 ~ 16 05518 ~ 05533 : ALARM 13 - RECORD CAMERA 1 ~ 16 05534 ~ 05549 : ALARM 14 - RECORD CAMERA 1 ~ 16 05550 ~ 05565 : ALARM 15 - RECORD CAMERA 1 ~ 16 05566 ~ 05581 : ALARM 16 - RECORD CAMERA 1 ~ 16 05582 ~ 05597 : EMR (Emergency) - RECORD CAMERA 1 ~ 16</p> <p>*****⁽²⁾ :</p> <p>00000 : OFF 00001 : ON</p> <p>**⁽³⁾ : Error type</p>

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

Command codes (continued)

• RS-232C [Direct operation specification] menu setting system command form <TIMER PROGRAM SETTINGS> (5/5)

Commands name	Commands	Status	Notes
ALARM SETTING A ~ D (TRIGGER) for timer recording	<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⁾ : 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 05623 : ALARM 10 05624 : ALARM 11 05625 : ALARM 12 05626 : ALARM 13 05627 : ALARM 14 05628 : ALARM 15 05629 : ALARM 16 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 05639 : ALARM 10 05640 : ALARM 11 05641 : ALARM 12 05642 : ALARM 13 05643 : ALARM 14 05644 : ALARM 15 05645 : ALARM 16 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 05655 : ALARM 10 05656 : ALARM 11 05657 : ALARM 12 05658 : ALARM 13 05659 : ALARM 14 05660 : ALARM 15 05661 : ALARM 16 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 05671 : ALARM 10 05672 : ALARM 11 05673 : ALARM 12 05674 : ALARM 13 05675 : ALARM 14 05676 : ALARM 15 05677 : ALARM 16 ***** ⁽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⁾ [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 REC LPA	↑	↑	(This command may not set depending on the version of the firmware.) ***** ⁽¹⁾ : 05957 ***** ⁽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 00006 : MOTION 00009 : ALARM ** ⁽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 00003 : ARCHIVE 00007 : LPA (00007 may not set depending on the version of the firmware.) ** ⁽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
HDD LPA REMAIN	↑	↑	(This command may not set depending on the version of the firmware.) ***** ⁽¹⁾ : 05958 ***** ⁽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⁾ [F1]	<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
HDD LPA FULL	↑	↑	(This command may not set depending on the version of the firmware.) ***** ⁽¹⁾ : 05959 ***** ⁽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
FIRO OVERWRITE MODE	↑	↑	***** ⁽¹⁾ : 05706 ***** ⁽²⁾ : 00000 : OFF 00001 : ON *** ⁽³⁾ : Error type
ARCHIVE SOURCE HDD	↑	↑	***** ⁽¹⁾ : 05708 ***** ⁽²⁾ : 00001 : MAIN 00002 : SUB 00007 : LPA (00007 may not set depending on the version of the firmware.) *** ⁽³⁾ : Error type
ARCHIVE REMAIN	↑	↑	***** ⁽¹⁾ : 05723 ***** ⁽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
ARCHIVE FULL	↑	↑	***** ⁽¹⁾ : 05726 ***** ⁽²⁾ : 00000 : OFF 00001 : ON *** ⁽³⁾ : Error type
CAMERA CONTROL (PTZ CONTROL)	↑	↑	***** ⁽¹⁾ : 05733 : CH1 05734 : CH2 05735 : CH3 05736 : CH4 05737 : CH5 05738 : CH6 05739 : CH7 05740 : CH8 05741 : CH9 05742 : CH10 05743 : CH11 05744 : CH12 05745 : CH13 05746 : CH14 05747 : CH15 05748 : CH16 ***** ⁽²⁾ : 00001 : - - - - - 00002 : PELCO-2400 00003 : PELCO-4800 00004 : PELCO-9600 00005 : A.D. (American Dynamics) 00006 : OMIKRON *** ⁽³⁾ : Error type
CAMERA CONTROL (ADDRESS)	↑	↑	***** ⁽¹⁾ : 05749 : CH1 05750 : CH2 05751 : CH3 05752 : CH4 05753 : CH5 05754 : CH6 05755 : CH7 05756 : CH8 05757 : CH9 05758 : CH10 05759 : CH11 05760 : CH12 05761 : CH13 05762 : CH14 05763 : CH15 05764 : CH16 ***** ⁽²⁾ : 00000 ~ 00255 (* ** * ** *) is different by the model.) *** ⁽³⁾ : Error type
LANGUAGE SELECTION	↑	↑	***** ⁽¹⁾ : 00000 ***** ⁽²⁾ : 00000 : ENGLISH 00001 : FRANCAIS 00002 : DEUTSCH 00003 : ESPAÑOL 00004 : РУССКИЙ *** ⁽³⁾ : Error type

Error type : Refer to "Command receive confirmation".

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 00007 : LPA (00007 may not set depending on the version of the firmware.) *** ⁽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 00009 : CH10 00010 : CH11 00011 : CH12 00012 : CH13 00013 : CH14 00014 : CH15 00015 : CH16 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 00002 : MAIN HDD→COPY 00003 : SUB HDD→COPY 00004 : ARC→MAIN HDD 00005 : COPY→MAIN HDD 00006 : CFC→MAIN HDD 00007 : LPA HDD→CFC 00008 : LPA HDD→COPY (00007 and 00008 may not set depending on the version of the firmware.) ** ⁽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
ID4-ID5	<Inquiry for setting information> DR,***** ⁽¹⁾ [F1]	<Reading of menu information> RC [F2] EX,** ⁽³⁾ DR,***** ⁽¹⁾ ***** ⁽²⁾ [F2]	***** ⁽¹⁾ : 06403 ***** ⁽²⁾ : 00000 : HDD 00001 : ARCHIVE-COPY ** ⁽³⁾ : Error type

Error type : Refer to "Command receive confirmation".

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 00001 : MIRRORING 00002 : PARTITION 00003 : LONG PRE-ALARM (00003 may not set depending on the version of the firmware.) ** ⁽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
PRE-ALARM REC DURATION	↑	↑	(This command may not set depending on the version of the firmware.) ***** ⁽¹⁾ : 06420 ***** ⁽²⁾ : 00000 : 0M 00300 : 5M 00600 : 10M 00900 : 15M 01200 : 20M 01500 : 25M 01800 : 30M ** ⁽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 : 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 ** ⁽⁹⁾ : Display condition 00 : Stop 01 : Start (from Stop) 02 : Start (from execution) 03 : Single screen 04 : Split screen 05 : Zoom 06 : End 07 : Error ** ⁽¹⁰⁾ : Motion detection condition 00 : Stop 01 : Start (from Stop) 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⁾ : Archive condition 00 : Stop 01 : Start (from Stop) 02 : Execution 03 : End 04 : Error ** ⁽¹²⁾ : Copy condition 00 : Stop 01 : Start (from Stop) 02 : Execution 03 : End 04 : Error ** ⁽¹³⁾ : Restore condition 00 : Stop 01 : Start (from Stop) 02 : Execution 03 : End 04 : Error ** ⁽¹⁴⁾ : Device control condition 00 : Stop 01 : Start (from Stop) 02 : Error ** ⁽¹⁵⁾ : Acquire information condition 00 : Stop 01 : Start (from Stop) 02 : Error ** ⁽¹⁶⁾ : Delete device condition 00 : Stop 01 : Start (from Stop) 02 : Error ** ⁽¹⁷⁾ : Data reset condition 00 : Stop 01 : Start (from Stop) 02 : Error ** ⁽¹⁸⁾ : OUTPUT B display condition 00 : Stop 01 : Start (from Stop) 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 1 : COPY 2 : ARCHIVE ***** ⁽²⁾ : Elapsed time 0000000000 ~ 9999999999 (hour) ** ⁽³⁾ : Error type
Registration of comment data information	COMD, ** ⁽¹⁾ ** ⁽²⁾ ***** ***** ***** ⁽³⁾ #1	RC #2 EX, ** ⁽³⁾ 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 09 : CH10 10 : CH11 11 : CH12 12 : CH13 13 : CH14 14 : CH15 15 : CH16 ** ⁽²⁾ : Number of comment characters (00 ~ 32) ** ... ** ⁽³⁾ : Comment ** ⁽⁴⁾ : Error type
Write comment	COMS, ** ⁽¹⁾ #1	RC #2 EX, ** ⁽³⁾ COMS, ** ⁽¹⁾ #2	** ⁽¹⁾ : Camera number 00 : CH1 01 : CH2 02 : CH3 03 : CH4 04 : CH5 05 : CH6 06 : CH7 07 : CH8 08 : CH9 09 : CH10 10 : CH11 11 : CH12 12 : CH13 13 : CH14 14 : CH15 15 : CH16 ** ⁽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 (1/2)

Commands name	Commands	Status	Notes
Check the warning display	WN1? F1	RC F2 EX,★★ ⁽³³⁾ WN1★ ⁽¹⁾ ★ ⁽²⁾ ... ★ ⁽³¹⁾ ★ ⁽³²⁾ F2	★ ⁽¹⁾ ... ★ ⁽³²⁾ : 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⁾ : ARCHIVE/SYSTEM ERROR ★ ⁽¹¹⁾ : ARCHIVE/RW ★ ⁽¹²⁾ : ARCHIVE/REM ★ ⁽¹³⁾ : ARCHIVE/OVER (HDD recording has overtaken archive recording and archive recording has stopped.) ★ ⁽¹⁴⁾ : ARCHIVE/OVER (HDD recording is about to overtake archive recording.) ★ ⁽¹⁵⁾ : ARCHIVE/SIZE/DATA ERROR ★ ⁽¹⁶⁾ : ARCHIVE/MEDIA ERROR ★ ⁽¹⁷⁾ : ARCHIVE/NO MEDIA ★ ⁽¹⁸⁾ : ARCHIVE/EW ★ ⁽¹⁹⁾ : COPY/SYSTEM ERROR ★ ⁽²⁰⁾ : COPY/RW ★ ⁽²¹⁾ : COPY/OVER (HDD recording has overtaken copy recording and copy recording has stopped.) ★ ⁽²²⁾ : COPY/OVER (HDD recording is about to overtake copy recording.) ★ ⁽²³⁾ : COPY/SIZE/DATA ERROR ★ ⁽²⁴⁾ : COPY/MEDIA ERROR ★ ⁽²⁵⁾ : COPY/NO MEDIA ★ ⁽²⁶⁾ : COPY/EW ★ ⁽²⁷⁾ : REST/SYSTEM ERROR ★ ⁽²⁸⁾ : REST/RW ★ ⁽²⁹⁾ : REST/SIZE/DATA ERROR ★ ⁽³⁰⁾ : REST/MEDIA ERROR ★ ⁽³¹⁾ : REST/NO MEDIA ★ ⁽³²⁾ : LPA : DEVICE ERROR (★ ⁽³²⁾ is not displayed depending on the version of the firmware.) ★★ ⁽³³⁾ : Error type ★ ⁽¹⁾ ... ★ ⁽⁶⁾ : 0 : No error display 1 : Error display
Check the media full warning display	WN2? F1	RC F2 EX,★★ ⁽⁷⁾ WN2★ ⁽¹⁾ ★ ⁽²⁾ ... ★ ⁽⁵⁾ ★ ⁽⁶⁾ F2	★ ⁽¹⁾ : REC/FULL ★ ⁽²⁾ : REC/SUB FULL ★ ⁽³⁾ : ARCHIVE/FULL ★ ⁽⁴⁾ : COPY/FULL ★ ⁽⁵⁾ : REST/FULL ★ ⁽⁶⁾ : REC/LPA FULL (★ ⁽⁶⁾ is not displayed depending on the version of the firmware.) ★★ ⁽⁷⁾ : Error type
Check the no signal condition	VN? F1	RC F2 EX,★★ ⁽¹⁷⁾ VN★ ⁽¹⁾ ★ ⁽²⁾ ... ★ ⁽¹⁵⁾ ★ ⁽¹⁶⁾ F2	★ ⁽¹⁾ ... ★ ⁽¹⁶⁾ : 0 : Video signal is not input from camera 1 : During deciding (video signal is not input from camera) 2 : During deciding (video signal is input from camera) 3 : Video signal is not input from camera ★ ⁽¹⁾ : CH1 ★ ⁽²⁾ : CH2 ★ ⁽³⁾ : CH3 ★ ⁽⁴⁾ : CH4 ★ ⁽⁵⁾ : CH5 ★ ⁽⁶⁾ : CH6 ★ ⁽⁷⁾ : CH7 ★ ⁽⁸⁾ : CH8 ★ ⁽⁹⁾ : CH9 ★ ⁽¹⁰⁾ : CH10 ★ ⁽¹¹⁾ : CH11 ★ ⁽¹²⁾ : CH12 ★ ⁽¹³⁾ : CH13 ★ ⁽¹⁴⁾ : CH14 ★ ⁽¹⁵⁾ : CH15 ★ ⁽¹⁶⁾ : CH16 ★★ ⁽¹⁷⁾ : 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 (To be continued on the next page)

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

Command codes (continued)

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

Commands name	Commands	Status	Notes
POWER	KKP0 #1 KKP1 #1 KKP2 #1	RC #2EX,★★(2)KKP0 #2 RC #2EX,★★(2)KKP1 #2 RC #2EX,★★(2)KKP2 #2	POWER button (Power on/off) Power on for change mode Power on for Auto set up ★★(2) : Error type
REC/STOP	KKR0 #1 KKR1 #1	RC #2EX,★★(2)KKR0 #2 RC #2EX,★★(2)KKR1 #2	REC/STOP button (Recording) REC/STOP button (Stop recording) ★★(2) : Error type
STOP	KKB0 #1	RC #2EX,★★(2)KKB0 #2	STOP button (Stop playback) ★★(2) : Error type
PLAY	KKB1 #1	RC #2EX,★★(2)KKB1 #2	PLAY button ★★(2) : Error type
REV.PLAY	KKB2 #1	RC #2EX,★★(2)KKB2 #2	REV.P button (Reverse playback) ★★(2) : Error type
PAUSE	KKB4 #1	RC #2EX,★★(2)KKB4 #2	PAUSE button (Playback pause) ★★(2) : Error type
TIMER	KKT0 #1 KKT1 #1	RC #2EX,★★(2)KKT0 #2 RC #2EX,★★(2)KKT1 #2	TIMER button (Timer on) TIMER button (Timer off) ★★(2) : Error type
ZOOM	KKZ #1	RC #2EX,★★(2)KKZ #2	ZOOM button ★★(2) : Error type
SPLIT/SEQUENCE	KKE #1	RC #2EX,★★(2)KKE #2	SPLIT/SEQUENCE button ★★(2) : Error type
CAMERA NUMBER (1 ~ 16)	KKD01 #1 KKD02 #1 KKD03 #1 KKD04 #1 KKD05 #1 KKD06 #1 KKD07 #1 KKD08 #1 KKD09 #1 KKD10 #1 KKD11 #1 KKD12 #1 KKD13 #1 KKD14 #1 KKD15 #1 KKD16 #1	RC #2EX,★★(2)KKD01 #2 RC #2EX,★★(2)KKD02 #2 RC #2EX,★★(2)KKD03 #2 RC #2EX,★★(2)KKD04 #2 RC #2EX,★★(2)KKD05 #2 RC #2EX,★★(2)KKD06 #2 RC #2EX,★★(2)KKD07 #2 RC #2EX,★★(2)KKD08 #2 RC #2EX,★★(2)KKD09 #2 RC #2EX,★★(2)KKD10 #2 RC #2EX,★★(2)KKD11 #2 RC #2EX,★★(2)KKD12 #2 RC #2EX,★★(2)KKD13 #2 RC #2EX,★★(2)KKD14 #2 RC #2EX,★★(2)KKD15 #2 RC #2EX,★★(2)KKD16 #2	CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8 CH9 CH10 CH11 CH12 CH13 CH14 CH15 CH16 ★★(2) : Error type
LOCK	KKL0 #1	RC #2EX,★★(2)KKL0 #2	LOCK button (Simple lock) ★★(2) : Error type
SET UP	KKM #1	RC #2EX,★★(2)KKM #2	SET UP button ★★(2) : Error type
COPY	KKC #1	RC #2EX,★★(2)KKC #2	COPY button ★★(2) : Error type
SEARCH	KKK0 #1	RC #2EX,★★(2)KKK0 #2	SEARCH button ★★(2) : Error type
WARNING RESET	KKW0 #1 KKW5 #1	RC #2EX,★★(2)KKW0 #2 RC #2EX,★★(2)KKW5 #2	WARNING RESET button WARNING RESET button (5 seconds pressing) ★★(2) : Error type
ALARM INTERRUPT	KKA #1	RC #2EX,★★(2)KKA #2	ALARM INTERRUPT button ★★(2) : Error type
JOG	KKJ0 #1 KKJ1 #1	RC #2EX,★★(2)KKJ0 #2 RC #2EX,★★(2)KKJ1 #2	JOG (right turn) JOG (left turn) ★★(2) : Error type
SHUTTLE	KKS00 #1 KKS01 #1 KKS02 #1 KKS03 #1 KKS04 #1 KKS11 #1 KKS12 #1 KKS13 #1 KKS14 #1	RC #2EX,★★(2)KKS00 #2 RC #2EX,★★(2)KKS01 #2 RC #2EX,★★(2)KKS02 #2 RC #2EX,★★(2)KKS03 #2 RC #2EX,★★(2)KKS04 #2 RC #2EX,★★(2)KKS11 #2 RC #2EX,★★(2)KKS12 #2 RC #2EX,★★(2)KKS13 #2 RC #2EX,★★(2)KKS14 #2	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
ARCHIVE	KKBK0 #1 KKBK1 #1	RC #2EX,★★(2)KKBK0 #2 RC #2EX,★★(2)KKBK1 #2	ARCHIVE button (Archive on) ARCHIVE button (Archive off) ★★(2) : Error type
PLAY DEVICE	KKDV #1	RC #2EX,★★(2)KKDV #2	PLAY DEVICE button ★★(2) : Error type
EJECT	KKEJ #1	RC #2EX,★★(2)KKEJ #2	EJECT button ★★(2) : Error type
OUTPUT A, OUTPUT B	KKUA #1 KKUB #1	RC #2EX,★★(2)KKUA #2 RC #2EX,★★(2)KKUB #2	OUTPUT A button OUTPUT B button ★★(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⁾	**** ⁽¹⁾ : 0100 : Power off 0107 : <SETTINGS> menu 010A : Device unusual situation 0110 : Auto set up 0101 : System change 0108 : <COPY> menu 010B : Device initialize 0113 : System unusual situation 0104 : Power on 0109 : <SEARCH> menu 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
Archive mode	†	**** ⁽¹⁾ : 0C00 : Stop 0C02 : Execute 0C04 : Archive 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 : Done 1002 : Acquire information
Data delete mode	†	**** ⁽¹⁾ : 2000 : Done 2002 : Data delete error
Device control mode	†	**** ⁽¹⁾ : 0F00 : Done 0F02 : Data delete error
Data reset mode	†	**** ⁽¹⁾ : 3000 : Done 3002 : Data delete error
Inform the NO SIGNAL condition	EX,AB11,***** ⁽¹⁾	** * * * * ⁽¹⁾ : Output the NO SIGNAL condition (3 : Having signal, 2 : Judge having signal 1 : Judge not having signal, 0 : Not having signal) about 16CH 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⁾	** ⁽¹⁾ : 12 : REC/RW 22 : ARCHIVE/RW 24 : ARCHIVE/OVER (HDD recording has overtaken archive recording and archive recording has stopped.) 25 : ARCHIVE/EW 26 : ARCHIVE/OVER (HDD recording is about to overtake archive recording.) 32 : COPY/RW 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 13 : REC/SYSTEM ERROR 23 : ARCHIVE SYSTEM ERROR 33 : COPY/SYSTEM ERROR
High temperature	EX,AB,** ⁽¹⁾	** ⁽¹⁾ : 81 : Detect high temperature 82 : Shut-down by high temperature
Inform the data falsification error	EX,AB51,** ⁽¹⁾	** ⁽¹⁾ : 01 ~ 16 : Camera number
Fan alarm	EX,AB71	
Inform the renewal of alarm number	EX,AC11,**** ⁽¹⁾	**** ⁽¹⁾ : 00001 ~ 09999 : Renewal of alarm number (Output when the alarm number is renewed.)
Inform the position	EX,AC,** ⁽¹⁾ ,** ⁽²⁾	** ⁽¹⁾ : 12 : MAIN HDD recording position 14 : LPA HDD recording position 32 : COPY device recording position (14 may not set depending on the version of the firmware.) ** ⁽²⁾ : 000 ~ 100 (%) 13 : SUB HDD recording position 22 : ARCHIVE device recording position 42 : RESTORE device recording position

Command codes (continued)

◆ Character code list

(When LANGUAGE is selected to 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

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 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

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) 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,** ⁽⁶⁾ 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 09 : CH10 10 : CH11 11 : CH12 12 : CH13 13 : CH14 14 : CH15 15 : CH16 ** ⁽⁵⁾ : Number of comment character (00 ~ 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,** ⁽³⁾ 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 09 : CH10 10 : CH11 11 : CH12 12 : CH13 13 : CH14 14 : CH15 15 : CH16 ** ⁽²⁾ : Number of comment characters (00 ~ 32) ** ... ** ⁽³⁾ : Comment ** ⁽⁴⁾ : Error type
Write comment	COMS,** ⁽¹⁾ #1	RC #2 EX,** ⁽³⁾ COMS,** ⁽¹⁾ #2	** ⁽¹⁾ : Camera number 00 : CH1 01 : CH2 02 : CH3 03 : CH4 04 : CH5 05 : CH6 06 : CH7 07 : CH8 08 : CH9 09 : CH10 10 : CH11 11 : CH12 12 : CH13 13 : CH14 14 : CH15 15 : CH16 ** ⁽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.

