

SONY

COLOR VIDEO CAMERA MODULE

XC-333/333P

Command List

(Ver. 1.00) — English —

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Use of the RS-232C control software which is developed based upon this command list may cause malfunction or damage to hardware and software. Sony Corporation is not liable for any of such damages.

INTRODUCTION

This document describes communication protocol between the personal computer (PC) and the camera controller (camera) for XC-333/Pcamera system. In this document, the data sent from the PC to the camera are called “commands”, whereas those returned from the camera are called “statuses”.

COMMUNICATION HARDWARE SETUP

Communication between the PC and the camera takes an RS-232C-conforming serial interface. Hardware setting of this serial interface shall be as follows.

- baud rate 4800/9600/19200 bps variable (by camera menu)
- data length 8 bit
- stop bit 2 bit
- parity none
- handshaking flow control by CTS / RTS

BASICS ON COMMANDS AND STATUSES

As a rule, a command or a status consists of five bytes organized in the format below.

First Byte	Second Byte	Third Byte	Fourth Byte	Fifth Byte
Header	Sub-Header	Data (High)	Data (Low)	Command Code

Data assignment for the bytes are as follows.

- Header

Major classification of the body data. Header types are listed below

Code	Classification
0xD0	System command
0xD1	Global data setting
0xD2	Titler setting

- Sub-Header

Minor classification. DSP state code when DSP data are being transmitted.

- Data

16-bit data block

- Command Code

The command code orders how the received data should be processed. Already defined command codes are listed below.

Code	Classification
0x10	Write setup value on the camera
0x11	Read setup value on the camera

COMMANDS

After a read command (of the command code 0x11) is received from the PC, the camera shall return the current set value in the data block. After a write command (of the command code 0x10) is received from the PC, the camera shall return the echo after processing that command. If the command is inexecutable because of an error or some reasons, the camera shall return an error status (of the header 0xFFFF). In either case, some status shall be returned in response to every command.

Commands are classified to DSP data setup commands, system commands, and global data setup commands. These commands are described in the following. All bit positions in the command data block that are left unassigned in the explanation shall contain zeros.

COMMANDS

■ System Commands

System commands are for operating the system. The following commands are available.

◆ Camera Lock/Free

This command enables and disables the setup keys on the camera. After receiving the LOCK signal, the camera disables all the setup keys on it and processes commands sent from the PC until the next FREE signal is received. Usually the camera lock command is sent once at starting of a program on the PC, and the camera free command at the end of the program.

Header	Sub	Data	Command	Reference
0xD0	0x00	<div> <div>D0</div> <div>Mode</div> <div>0: Free (Manupulatable)</div> <div>1: Lock (Unmanupulatable)</div> </div>	0x10/0x11	

◆ Write Data Into Flash Memory

This command makes the camera write the current setup into a specified flash memory area.

Header	Sub	Data	Command	Reference
0xD0	0x01	<div style="display: flex; justify-content: space-between;"> D0-D1 Memory Position D1 D0 </div> <p>0: Memory #1 1: Memory #2 2: Live Memory</p>	0x10/0x11	

To a status read command (of the command code 0x11), the camera shall return the following status carried on the data block. Control application program on the PC shall refer to this status and wait until the camera completes its processing.

```
Data    0x0000 : Completed
        0x0001 : Writing
```

◆ Key Bind

This is a virtual key command for operating from the PC instead of using camera setup keys. The camera performs the same processing as it does when the corresponding key on the camera has been pressed. It judges that the key has been pressed when the KEY STATE is ON.

Header	Sub	Data																Command	Reference
0xD0	0x03									D7	D6	D5	D4	D3	D2	D1	D0	0x10	
		D0-D6 Key Code																	
		1:Up Arrow								5:Center									
		2:Down Arrow								6:Menu									
		3:Left Arrow								7:Auto-White									
		4:Right Arrow								8:Left+Right									
		D7 Key State																	
		0:OFF								1:ON									

◆ **Menu On/Off**

This command turns the menu on and off which is superimposed on camera pictures.

Header	Sub	Data																Command	Reference
0xD0	0x04																D0	0x10/0x11	
		D0 Menu Mode (0: OFF 1: ON)																	

This command makes the camera read the setup preserved in a specified flash memory area.

To a status read command (of the command code 0x11), the camera shall return the following status carried on the data block. Control application program on the PC shall refer to this status and wait until the camera completes its processing.

This is AWB ONE PUSH command.

To a status read command (of the command code 0x11), the camera shall return the following status carried on the data block. Control application program on the PC shall refer to this status and wait until the camera completes its processing.

This is AUTO BLACK BALANCE command. The camera puts the AUTO BLACK BALANCE into action.

After sending this command to the camera, the PC shall read the status with the same command (command code 0x11). At this time, the camera shall return the following result to the data block. The PC shall refer to this status and wait until the camera completes its processing.

The Application program on the PC shall not issue any command for a second after sending this command (Command Code 0x10).

If date display is set up as a global data item, which is explained later, the PC shall use this command to send current date information for monitor display.

This command is for transmission only.

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COMMANDS

◆ Clock Announce

If date display is set up as a global data item, which is explained later, the PC shall use this command to send current time information for monitor display.

This command is for transmission only.

Header	Sub	Data																Command	Reference
0xD0	0x41	DF	DE	DD	DC	DB	DA	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0	0x10	
		D0-D7 Minute data (0~59)																	
		D8-DE Time data (0~23)																	

◆ Second Announce

If date display is set up as a global data item, which is explained later, the PC shall use this command to send current time information for monitor display.

This command is for transmission only.

Header	Sub	Data																Command	Reference
0xD0	0x42	DF	DE	DD	DC	DB	DA	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0	0x10	
		D0-D9 Millisecond data (0~999)																	
		DA-DF Second data (0~59)																	

◆ Synchronize

This command is issued at every third second from the PC. Thanks to this, the camera can use this command to detect whether the PC is connected. The PC can use this command to collect camera model information and so on.

Header	Sub	Data																Command	Reference
0xD0	0xF0																0x11		
		0x0000																	

The camera shall return the response shown below.

Header	Sub	Data																Command	Reference
0xD0	0xF0					DB	DA	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0	0x11	
		D7-D0 Model code (0x00 : DXC-LS1/P)																	
		D8 Genlock mode																	
		0: Without external sync																	
		1: With external sync																	
		DB-D9 Cable length data																	
		0: 2M				4: 10M2													
		1: 3M				5: Reservation 1													
2: 5M				6: Reservation 2															
3: 10M1																			

COMMANDS

Global Data Setup Commands-1

Commands of this category are for setting up camera parameters.

Header	Sub	Data	Command	Reference																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Header	Sub	Data	Command	Reference
0xD1	0x84	<div> <div>D7D6D5D4D3D2D1D0</div> AE setting (Center1-light metering) D0: Light metering area 0:PEAK 1:APL </div>	0x10/0x11	
0xD1	0x85	<div> <div>D7D6D5D4D3D2D1D0</div> AE setting (Center1-PEAK level) D7-D0: PEAK level (−60~+60) </div>	0x10/0x11	The PEAK level is represented as a twos complement (D7: sign)
0xD1	0x86	<div> <div>D7D6D5D4D3D2D1D0</div> AE setting (Center1-APL level) D7-D0: APL level (−60~+60) </div>	0x10/0x11	The APL level is represented as a twos complement (D7: sign)
0xD1	0x87	<div> <div>D7D6D5D4D3D2D1D0</div> AE setting (Center2-Light metering area) D0: Light metering 0:PEAK 1:APL </div>	0x10/0x11	
0xD1	0x88	<div> <div>D7D6D5D4D3D2D1D0</div> AE setting (Center2-PEAK level) D7-D0: PEAK level (−60~+60) </div>	0x10/0x11	The PEAK level is represented as a twos complement (D7: sign)
0xD1	0x89	<div> <div>D7D6D5D4D3D2D1D0</div> AE setting (Center2-APL level) D7-D0: APL level (−60~+60) </div>	0x10/0x11	The APL level is represented as a twos complement (D7: sign)
0xD1	0x8A	<div> <div>D7D6D5D4D3D2D1D0</div> AE setting (Slit1-Light metering) D0: Light metering area 0:PEAK 1:APL </div>	0x10/0x11	
0xD1	0x8B	<div> <div>D7D6D5D4D3D2D1D0</div> AE setting (Slit1-PEAK level) D7-D0: PEAK level (−60~+60) </div>	0x10/0x11	The PEAK level is represented as a twos complement (D7: sign)
0xD1	0x8C	<div> <div>D7D6D5D4D3D2D1D0</div> AE setting (Slit1-APL level) D7-D0: APL level (−60~+60) </div>	0x10/0x11	The APL level is represented as a twos complement (D7: sign)
0xD1	0x8D	<div> <div>D7D6D5D4D3D2D1D0</div> AE setting (Slit2-Light metering) D0: Light metering area 0:PEAK 1:APL </div>	0x10/0x11	
0xD1	0x8E	<div> <div>D7D6D5D4D3D2D1D0</div> AE setting (Slit2-PEAK level) D7-D0: PEAK level (−60~+60) </div>	0x10/0x11	The PEAK level is represented as a twos complement (D7: sign)
0xD1	0x8F	<div> <div>D7D6D5D4D3D2D1D0</div> AE setting (Slit2-APL level) D7-D0: APL level (−60~+60) </div>	0x10/0x11	The APL level is represented as a twos complement (D7: sign)
0xD2	0x00~ 0x9B	<div> <div>DFDEDDDCDBDA</div> <div>D9D8D7D6D5D4D3D2D1D0</div> Title indication character DF-D8: The first column (left) character code D7-D0: The second column (right) character code </div>	0x10/0x11	The sub-header value determines the display position. Higher 4 bits: line (0-9) Lower 4 bits: column (0-11)
0xD2	0xFF	<div> <div>D7D6D5D4D3D2D1D0</div> Titler data all clear </div>	0x10	

— STATUS

The camera shall return statuses according to the requests from the PC. A status is classified as either a general status or an error status.

■ General Statuses

General statuses are returned in response to Read-type commands (of command code 0x01 or 0x11). The camera shall return to the PC general statuses with the current set value written in the data block.

■ Error Statuses

Error statuses are for notifying the PC of an error that has been detected by the camera. Both the header and the subheader of an error status shall be 0xFF. Error codes to be written in the data block are shown below.

Header	Sub	Data	Command	Reference
0xFF	0xFF	<div style="display: flex; align-items: center;"> <div style="flex-grow: 1; border-bottom: 1px solid black;"></div> <div style="width: 20px; text-align: right; padding-right: 5px;">D0</div> </div> Error code(listed below)	0x00	

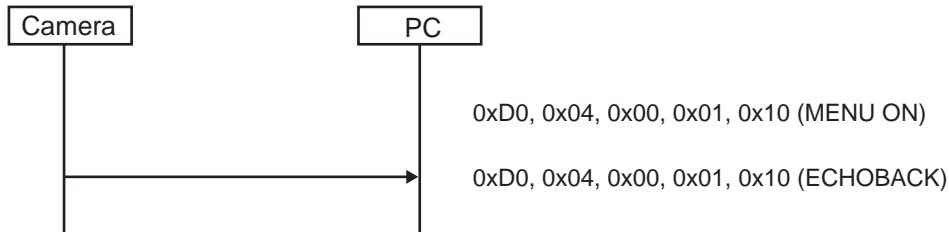
Error Code	Error Contents
0x0000	No available program code, Down load required.
0x0001	Illegal header received.
0x0002	Command not accepted.
0x0101	Parity error.
0x0102	Framing error.
0x0103	Communication overrun.
0x0301	Checksum error in downloaded code.
0x0303	Write fault in flash programming.
0xFFFF	DSP access fault.

— CONCRETE EXAMPLES OF COMMAND COMMUNICATION —

Concrete examples of command Communication are given below.

■ An Example of General Command

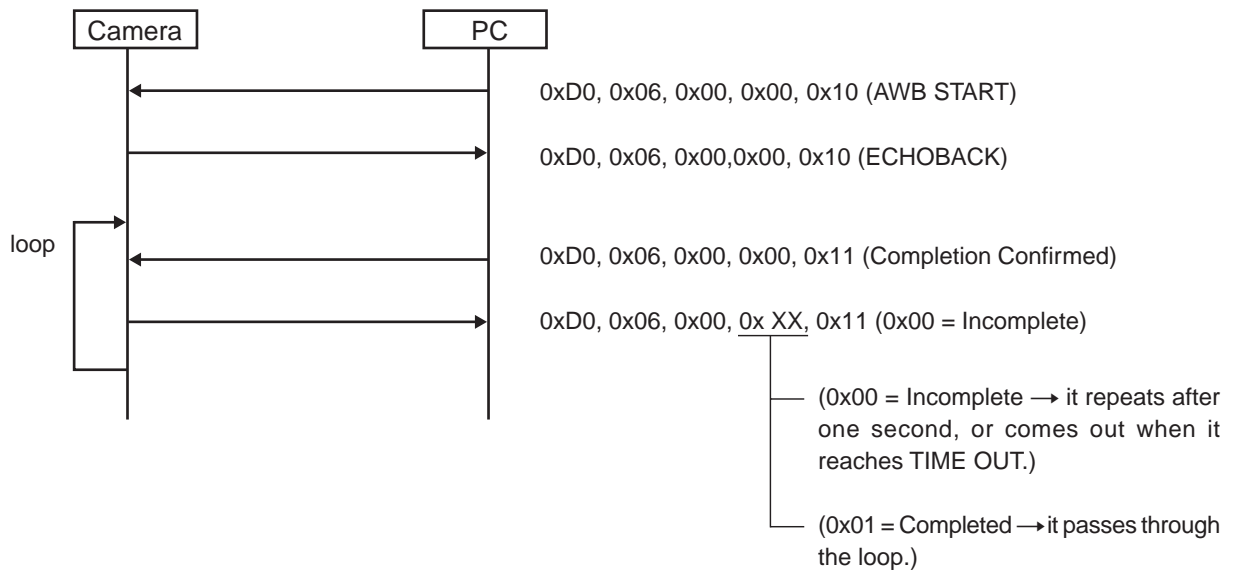
This example makes the camera monitor indicate the menu. When there is no error as in the chart below, the returned echoback shall be tested.



■ An Example of Command Waiting for Completion

This example is putting AWB into action. The CCC is testing the completion of AWB by read command (0x11) after sending AWB start command and confirming its echoback. This test is repeated until it is completed or it becomes time out error.

It is advisable that the Read command for confirming each completion be put at an interval of about one second from the camera limit.



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