



# TASCAM DA-6400/DA-6400dp

CONTROL I/O connector

TELNET protocol specifications

Ver. 1.00

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TEAC Corporation

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1. Overview

The ETHERNET (TELNET) connector built into the DA-6400/DA-6400dp can be used to control the DA-6400/DA-6400dp from a computer or another external device. In this document, the DA-6400/DA-6400dp is called the "controlled device". The external device used to control it is called the "controlling device".

2. Command format

Command format overview

The command format is as follows.

Byte 1	2	3	4	5	6	7	...	n-1	n
ID	Command		Data 1	Data 2	Data 3	Data 4	...	LF	CR

Commands start with an "ID" and end with a linefeed (LF) and a carriage return (CR), and are based on ASCII format. However, the characters used in project names, for example, use UTF-8.

Machine ID (ID) will be explained below.

Commands are expressed as two-byte ASCII.

For details about the data, see the explanation of each command. For commands that use data values from 0-9 and A-F, uppercase letters are used for A-F.

Command examples

Example 1: Sending a PLAY command to a controlled device with Machine ID = 0

When stopped or in playback standby, this command will start playback on the controlled device.

The play command is "12" and is transmitted as follows.

	ID	Command			
ASCII	0	1	2	LF	CR
HEX	30h	31h	32h	0Ah	0Dh

Example 2: Specifying a direct search for take 123 on a controlled device with Machine ID = 0

This will send the "DIRECT TRACK SEARCH PRESET" (23) command for this operation.

Data bytes are formed of two-byte ASCII units.

The take number specification for the "DIRECT TRACK (TAKE) SEARCH PRESET" command is as follows.

- Data 1 Tens digit for specified take number
- Data 2 Ones digit for specified take number
- Data 3 Thousands digit for specified take number
- Data 4 Hundreds digit for specified take number

Therefore, the transmitted command is as follows.

	ID	Command		Data: take 123					
ASCII	0	2	3	2	3	0	1	LF	CR
HEX	30h	32h	33h	32h	33h	30h	31h	0Ah	0Dh

Machine ID (ID)

The unit receives and sends return commands with Machine ID = 0.

If the unit receives the command with an ID other than 0, the command will be ignored.

If the unit receives an unsupported command, it will return ILLEGAL [F2]

## Command list

The list of commands is as follows.

Control/Preset/Sense Command		Return Command		AdoptedF/W Ver
0F	INFORMATION REQUEST	8F	INFORMATION RETURN	
10	STOP			
12	PLAY			
13	RECORD			
14	PAUSE			
16	SEARCH			
1A	SKIP			
23	DIRECT TRACK SEARCH PRESET			
27	CLOCK DATA PRESET	A7	CLOCK DATA RETURN	
2C	TIME SEARCH PRESET			
37	REPEAT MODE SELECT	B7	REPEAT MODE SELECT RETURN	
4C	REMOTE/LOCAL MODE SELECT	CC	REMOTE/LOCAL MODE RETURN	
4D	PLAY MODE SELECT			
4E	PLAY MODE SENSE	CE	PLAY MODE RETURN	
50	MECHA STATUS SENSE	D0	MECHA STATUS RETURN	
55	TRACK No. STATUS SENSE	D5	TRACK No. STATUS RETURN	
57	CURRENT TRACK INFORMATION SENSE	D7	CURRENT TRACK INFORMATION RETURN	
58	CURRENT TRACK TIME SENSE	D8	CURRENT TRACK TIME RETURN	
59	TITLE SENSE	D9	TITLE RETURN	
5D	TOTAL TRACK No./TOTAL TIME SENSE	DD	TOTAL TRACK No./TOTAL TIME RETURN	
5F	KEYBOARD TYPE SENSE	DF	KEYBOARD TYPE RETURN	
		F0	ERROR SENSE REQUEST	
		F1	CAUTION SENSE REQUEST	
		F2	ILLEGAL STATUS	
		F6	CHANGE STATUS	
78	ERROR SENSE	F8	ERROR SENSE RETURN	
79	CAUTION SENSE	F9	CAUTION SENSE RETURN	
7F	VENDER COMMAND	FF	VENDER COMMAND RETURN	

## Vender command list

The list of vender commands (Command 7F/FF) is as follows.

Their command codes are indicated as a combination of Command (2-byte), Category Code (2-byte) and Sub Command (2-byte). For details, see the section starting page 31.

Control/Sense Command		Return Command		Adopted F/W Ver
7F021A	PROJECT SKIP			
7F0223	PROJECT SELECT			
7F0240	CREATE PROJECT	FF02C0	PROJECT CREATE RETURN	
7F0242	REBUILD PROJECT	FF02C2	REBUILD PROJECT ACK	
7F0244	DELETE PROJECT	FF02C4	DELETE PROJECT ACK	
7F0255	PROJECT No STATUS SENSE	FF02D5	PROJECT No RETURN	
7F025A	PROJECT NAME SENSE	FF02DA	PROJECT NAME RETURN	
7F025E	TOTAL PROJECT No SENSE	FF02DE	TOTAL PROJECT No RETURN	
7F0310	MARK SET			
7F0323	DIRECT MARK SKIP PRESET			
7F0324	MARK TIME PRESET			
7F0329	MARK NAME PRESET			
7F0344	DELETE MARK			
7F0355	MARK No. STATUS SENSE	FF03D5	MARK No. RETURN	
7F0358	MARK TIME SENSE	FF03D8	MARK TIME RETURN	
7F0359	MARK NAME SENSE	FF03D9	MARK NAME RETURN	
7F035D	TOTAL MARK No SENSE	FF03DD	TOTAL MARK No RETURN	
7F0600	CHASE SELECT	FF0680	CHASE RETURN	
7F0610	TC START TIME PRESET	FF0690	TC START TIME RETURN	
7F0611	TC USER BITS PRESET	FF0691	TC USER BITS RETURN	
7 F0612	TC RESTART			
7F0620	TC GENERATOR MODE SELECT	FF06A0	TC GENERATOR MODE RETURN	
7F0621	TC FRAME TYPE SELECT	FF06A1	TC FRAME TYPE RETURN	
7F0630	TC OUTPUT MODE SELECT	FF06B0	TC OUTPUT MODE RETURN	
7F0640	CLOCK MASTER SELECT	FF06C0	CLOCK MASTER RETURN	
7F0648	WORD THRU SELECT	FF06C8	WORD THRU RETURN	
7F0800	RECORD FUNCTION SELECT	FF0880	RECORD FUNCTION RETURN	
7F0801	INPUT MONITOR FUNCTION SELECT	FF0881	INPUT MONITOR FUNCTION RETURN	
7F0822	BIT LENGTH SELECT	FF08A2	BIT LENGTH RETURN	
7F0823	MAX FILE SIZE SELECT	FF08A3	MAX FILE SIZE RETURN	
7F0824	PAUSE MODE SELECT	FF08A4	PAUSE MODE RETURN	
7F082A	USER WORD PRESET			
7F0832	TIME INTERVAL MARKER TIME PRESET	FF08B2	TIME INTERVAL MARKER TIME RETURN	
7F0841	AUDIO OVER MARKER SELECT	FF08C1	AUDIO MARKER RETURN	
7F0842	TIME INTERVAL MARKER SELECT	FF08C2	TIME INTERVAL MARKER RETURN	
7F0843	SYNC UNLOCK MARKER SELECT	FF08C3	SYNC UNLOCK MARKER RETURN	
7F0850	REC FS SELECT	FF08D0	REC FS RETURN	
7F085A	USER WORD SENSE	FF08DA	USER WORD RETURN	

7F0860	FILE NAME SELECT	FF08E0	FILE NAME RETURN	
7F1001	MEDIA REMAIN SENSE	FF1081	MEDIA REMAIN RETURN	
7F1044	MEDIA FORMAT	FF10C4	MEDIA FORMAT ACK	
7F1110	AUX ASSIGN KEY SELECT	FF1190	AUX ASSIGN KEY RETURN	
7F1111	AUX ASSIGN TALLY SELECT	FF1191	AUX ASSIGN TALLY RETURN	
7F1250	INPUT ROUTING SELECT	FF12D0	INPUT ROUTING RETURN	
7F1251	OUTPUT ROUTING SELECT	FF12D1	OUTPUT ROUTING RETURN	
7F1321	METER PEAK HOLD TIME PRESET	FF13A1	METER PEAK HOLD TIME RETURN	
7F1330	METER PEAK CLEAR			
7F1420	DIGITAL REFERENCE LEVEL PRESET	FF14A0	DIGITAL REFERENCE LEVEL RETURN	
7F4200	TAKE RENAME	FF4280	TAKE RENAME ACK	
7F4230	TAKE ERASE	FF42B0	TAKE ERASE ACK	
7F4252	TAKE COPY	FF42D2	TAKE COPY ACK	

Caution: If no supported version is indicated in the "Adopted F/W Ver." column, ver. 1.30 or later are supported.

Command sequence

Most of the time, the controlled device does not send ACK in response to transport control and data preset commands sent by the controlling device.

The controlled device sends return commands in response to data sense commands that request the return of data values set in the controlled device.

The controlled device also sends notification commands to the controlling device when its status changes, for example from stopped to playing, and when errors and other significant things occur.

Examples of command sequences follow.

Always leave at least 20 ms open between commands.

Example 1: Control the transport of the controlled device

This is an example of starting playback.

When the controlled device receives a PLAY command and starts playing, it sends a CHANGED STATUS command.

ACK is not sent for the PLAY command.

Command		Controlled device status
Controlling device	Controlled device	
PLAY	->	Stopped
	<- CHANGED STATUS	Send that playback has started

Example 2: Setting data

This is an example of setting the REPEAT mode.

The controlled device receives a REPEAT MODE SELECT (Select) command and sets its REPEAT mode.

ACK is not sent for this command.

Command		Controlled device status
Controlling device	Controlled device	
REPEAT MODE SELECT (Select ON)	->	REPEAT mode set to ON

Example 3: Receiving set data

This is an example of receiving the set REPEAT mode.

When the controlled device receives a REPEAT MODE SELECT (Sense) command, it returns the set REPEAT mode.

Command		Controlled device status
Controlling device	Controlled device	
REPEAT MODE SELECT (Sense)	->	
	<- REPEAT MODE SELECT DATE	

Example 4: Confirm the controlled device status and conduct the next operation

If the operation status of the controlled device changes, it sends CHANGED STATUS. With CHANGED STATUS as a trigger, sending MECHA STATUS SENSE can confirm the new operation status.

In this example, after confirming the recording standby status of the controlled device, recording is started.

Command		Controlled device status
Controlling device	Controlled device	
RECORD (Record Ready)	->	Stopped
	<- CHANGED STATUS	Sends when recording standby status starts
MECHA STATUS SENSE	->	Returns recording standby status
	<- MECHA STATUS RETURN	
RECORD (Record)	->	Sends when recording status starts
	<- CHANGES STATUS	

**Command details**

The commands, data and Machine ID given here are ASCII characters.

Commands are 2-byte characters, the Machine ID is a 1-byte character and Data are each 1-byte characters.

The specifications for take and project numbers that this unit can handle are as follows. If a number is specified for an item that does not exist, however, the command will be treated as invalid.

Take number 999 maximum

Project number 99 maximum

**INFORMATION REQUEST**

This requests information about the controlled device, including the version of the software used.

Command 0F  
 Machine ID 0  
 Data none  
 Return INFORMATION RETURN [8F]

**STOP**

This stops the controlled device.

Command 10  
 Machine ID 0  
 Data none  
 Return none

**PLAY**

This starts controlled device playback.

Use RECORD (Record) to start recording from recording standby.

Command 12  
 Machine ID 0  
 Data none  
 Return none

**RECORD**

This puts the controlled device into recording or recording standby status.

Command 13  
 Machine ID 0  
 Data 2 bytes

Data 1	Data 2	Meaning	Notes
0	0	Record	This starts recording from recording standby.
0	1	Record Pause	This starts recording standby
0	2	Take Split	This starts a new take during recording.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return none

**PAUSE**

This pauses playback of the controlled device.

Use RECORD (Record Pause) to pause recording.

Command 14  
 Machine ID 0  
 Data 2 bytes

Data 1	Data 2	Meaning	Notes
0	1	Pause On	This pauses playback.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return none



**SEARCH**

This starts search playback on the controlled device.

Search playback will continue until STOP, PLAY, PAUSE or another command is received.

Command 16

Machine ID 0

Data 2 bytes

Data 1	Data 2	Meaning	Notes
0	0	Search Forward (Normal)	This starts forward search playback mode. (Normal speed)
0	1	Search Reverse (Normal)	This starts reverse search playback mode. (Normal speed)
1	0	Search Forward (High)	This starts forward search playback mode. (High speed)
1	1	Search Reverse (High)	This starts reverse search playback mode. (High speed)

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return none

**SKIP**

This skips on the controlled device.

Use this for a take skipping.

Use this also for mark skipping.

After skipping, the status before skipping is retained.

Command 1A

Machine ID 0

Data 2 bytes

Data 1	Data 2	Meaning	Notes
0	0	Track Skip Next	Skip to the next take.
0	1	Track Skip Previous	When less than one second from the beginning of the current take, skip to the previous take. Otherwise, skip to the beginning of the current take.
2	0	Mark Skip Next	Skip to the next mark.
2	1	Mark Skip Previous	Skip to the previous mark.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return none

**DIRECT TRACK SEARCH PRESET**

Specify a take number to search for it directly.

After a direct search, the operation of the controlled device depends on the data format (length) of this command.

When the Data length is 4-byte

When this command is received when the unit is in stopped or playback mode, it will be put in playback mode after the direct search. In all other modes, the same mode will be retained after the direct search.

When the Data length is 6-byte

After the direct search, the unit will follow the command given in Data 5/6.

Command           23

Machine ID        0

Data               4 bytes or 6 bytes

	Meaning	Notes
Data 1	Take number tens digit	Take number Example: "2301" is take 123
Data 2	Take number ones digit	
Data 3	Take number thousands digit	
Data 4	Take number hundreds digit	

When the Data length is 6-byte, the following data is added as an operation specification

Data 5	Data 6	Operation	Notes
1	0	STOP	Stop after searching completes
1	2	PLAY	Start playback after searching completes
1	4	PAUSE	Start playback standby after searching completes

- If a number is specified for a take that does not exist, the unit will return ILLEGAL [F2].
- If a Data 5/6 operation specification code that is not in the table is specified, the unit will return ILLEGAL [F2].

Return            none

**CLOCK DATA PRESET**

This sets date and time information on the controlled device.

A return command is only sent when Sense [FF] is specified for Data 1 and Data 2.

Command 27

Machine ID 0

Data 10 bytes or 2 bytes

	Meaning	Notes
Data 1	Western calendar year tens digit	Example: "1602231234" is 12:34 pm on February 23, 2016.
Data 2	Western calendar year ones digit	
Data 3	Month tens digit	
Data 4	Month ones digit	
Data 5	Date tens digit	
Data 6	Date ones digit	
Data 7	Hour tens digit	
Data 8	Hour ones digit	
Data 9	Minute tens digit	
Data 10	Minute ones digit	

- If a date or time that does not exist is specified, the unit will return ILLEGAL [F2].

Return CLOCK DATA RETURN [A7]

**TIME SEARCH PRESET**

Search by designating a take number or time.

After searching, the operation of the controlled device depends on the data format (length) of this command.

When the Data length is 12-byte

If this command is received when the unit is stopped or playing back, playback will start after searching. At all other times, the same status will be retained after searching.

When the Data length is 14-byte

After searching, the unit will follow the command given in Data 13/14.

Command 2C

Machine ID 0

Data 12 bytes or 14 bytes

	Meaning	Notes
Data 1	Take number tens digit	
Data 2	Take number ones digit	
Data 3	Take number thousands digit	
Data 4	Take number hundreds digit	
Data 5	Hour tens digit	
Data 6	Hour ones digit	
Data 7	Minute tens digit	
Data 8	Minute ones digit	
Data 9	Second tens digit	
Data 10	Second ones digit	
Data 11	Frame tens digit	
Data 12	Frame ones digit	

When the Data length is 14-byte, the following data is added

Data 13	Data 14	Operation	Notes
1	0	STOP	Stop after searching completes
1	2	PLAY	Start playback after searching completes
1	4	PAUSE	Start playback standby after searching completes

- If a number is specified for a take that does not exist, the unit will return ILLEGAL [F2].
- If the unit receives any Data outside the operations specifications, it will send ILLEGAL [F2].
- If a Data 13/14 operation specification code that is not in the table is specified, the unit will return ILLEGAL [F2].

Return none

**REPEAT MODE SELECT**

This sets the repeat mode of the controlled device.

A return command is only sent when Sense [FF] is specified.

Command 37

Machine ID 0

Data 2 bytes

Data 1	Data 2	Meaning	Notes
0	0	Repeat Off	Repeat playback is off
0	1	Repeat Normal	Normal repeat playback is active
2	1	Repeat Vamping	"Vamping" repeat playback is active
F	F	Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return REPEAT MODE SELECT RETURN [B7]

**REMOTE/LOCAL SELECT**

Set whether operations using the controlled device itself are enabled or disabled.

A return command is only sent when Sense [FF] is specified.

Command 4C

Machine ID 0

Data 2 bytes

Data 1	Data 2	Meaning	Notes
0	0	Remote	Only remote operation through the CONTROL I/O (TELNET, RS-422, PARALLEL) is enabled. Operation using the keys on the unit itself is disabled.
0	1	Local	Remote operation and operation using the keys on the unit itself are enabled.
F	F	Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return REMOTE/LOCAL SELECT RETURN [CC]

**PLAY MODE SELECT**

This sets the play mode of the controlled device.

Use the "PLAY MODE SENSE [4E]" command to check the play mode.

This command will be ignored if the operation mode is timeline mode.

Command 4D

Machine ID 0

Data 2 bytes

Data 1	Data 2	Meaning	Notes
0	0	All Take	Play all takes in the current session
0	1	One Take	Play only the current take

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return none

**PLAY MODE SENSE**

This requests that the play mode of the controlled device be returned.

Command 4E

Machine ID 0

Data none

Return PLAY MODE RETURN [CE]

**MECHA STATUS SENSE**

This requests that operation status information for the controlled device be returned.

Command 50  
 Machine ID 0  
 Data none  
 Return MECHA STATUS RETURN [D0]

**TRACK No. STATUS SENSE**

This requests that the number of the current take/entry be returned.

Command 55  
 Machine ID 0  
 Data none  
 Return TRACK No. STATUS RETURN [D5]

**CURRENT TRACK INFORMATION SENSE**

This requests that information about the current take/entry be returned.

If received during recording, ILLEGAL [F2] will be returned.

Command 57  
 Machine ID 0  
 Data none  
 Return CURRENT TRACK INFORMATION RETURN [D7]

**CURRENT TRACK TIME SENSE**

This requests that time information about the current take (or take being recorded) be returned. (Hour, minute, second, frame)

Command 58  
 Machine ID 0  
 Data 2 bytes

Data 1	Data 2	Meaning	Notes
1	0	Elapsed Time	Take elapsed time
1	1	Remain Time	Take remaining time During recording, possible recording time until maximum file size
1	2	Total Elapsed Time	Elapsed time of entire project
1	3	Total Remain Time	Remaining time of entire project During recording, possible recording capacity of media
1	4	Timecode Time	Timecode time

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return CURRENT TRACK TIME RETURN [D8]

**TITLE SENSE**

This requests that the name of the specified take be returned.

Command 59  
 Machine ID 0  
 Data 4 bytes

	Meaning	Notes
Data 1	Take number tens digit	Take number Example: "2301" is take 123
Data 2	Take number ones digit	
Data 3	Take number thousands digit	
Data 4	Take number hundreds digit	

- If a number is specified for a take that does not exist, the unit will return ILLEGAL [F2].

Return TITLE RETURN [D9]

**TOTAL TRACK No. / TOTAL TIME SENSE**

This requests that the total number of takes and total time be returned.

Command        5D  
Machine ID     0  
Data            none  
Return         TOTAL TRACK No. / TOTAL TIME RETURN [DD]

**KEYBOARD TYPE SENSE**

This requests that the type of the keyboard connected to the controlled device be returned.

Command        5F  
Machine ID     0  
Data            none  
Return         KEYBOARD TYPE RETURN [DF]

**ERROR SENSE**

This requests that the error status be returned.

Command        78  
Machine ID     0  
Data            none  
Return         ERROR SENSE RETURN [F8]

**CAUTION SENSE**

This requests that the caution status be returned.

Command        79  
Machine ID     0  
Data            none  
Return         CAUTION SENSE RETURN [F9]

**VENDER COMMAND**

This command controls a function unique to this unit. For details, see "Vender command details" on page 23.

Command        7F

**INFORMATION RETURN**

This is a return command in response to an "INFORMATION REQUEST [0F]" command.

This returns the software version of the controlled device.

Command 8F

Machine ID 0

Data 4 bytes

Data 1	Software version tens digit	Data 1–Data 4 example 0100          Version 1.00
Data 2	Software version ones digit	
Data 3	Software version first decimal place digit	
Data 4	Software version second decimal place digit	

Request/Preset INFORMATION REQUEST [0F]

**CLOCK DATA RETURN**

This is a return command in response to a "CLOCK DATA PRESET [27]" command.

This returns the set date and time values.

Command A 7

Machine ID 0

Data 12 bytes

	Meaning	Notes
Data 1	Western calendar year tens digit	
Data 2	Western calendar year ones digit	
Data 3	Month tens digit	
Data 4	Month ones digit	
Data 5	Date tens digit	
Data 6	Date ones digit	
Data 7	Hour tens digit	
Data 8	Hour ones digit	
Data 9	Minute tens digit	
Data 10	Minute ones digit	
Data 11	Second tens digit	
Data 12	Second ones digit	

Request/Preset CLOCK DATA PRESET [2 7]

**REPEAT MODE SELECT RETURN**

This is a return command in response to a "REPEAT MODE SELECT [37]" command.

This returns the repeat mode.

Command B7

Machine ID 0

Data 2 bytes

Data 1	Data 2	Meaning	Notes
0	0	Repeat Off	Repeat playback is off
0	1	Repeat Normal	Normal repeat playback is active
2	1	Repeat Vamping	"Vamping" repeat playback is active

Request/Preset REPEAT MODE SELECT [37]



**REMOTE/LOCAL SELECT RETURN**

This is a return command in response to a "REMOTE/LOCAL SELECT [4C]" command.

This returns whether operation of the keys on the unit is enabled or disabled.

Command CC

Machine ID 0

Data 2 bytes

Data 1	Data 2	Meaning	Notes
0	0	Remote	Only remote operation through the CONTROL I/O (TELNET, RS-422, PARALLEL) is enabled. Operation using the keys on the unit itself is disabled.
0	1	Local	Remote operation and operation using the keys on the unit itself are enabled.

Request/Preset REMOTE/LOCAL SELECT [4C]

**PLAY MODE RETURN**

This is a return command in response to a "PLAY MODE SENSE [4E]" command.

This returns the current play mode.

Command CE

Machine ID 0

Data 2 bytes

Data 1	Data 2	Meaning	Notes
0	0	All Take	Play all takes in the current project
0	1	One Take	Play only the current take

Request/Preset PLAY MODE SENSE [4E]

**MECHA STATUS RETURN**

This is a return command in response to a "MECHA STATUS SENSE [50]" command.

This returns current operation status information.

Command D0

Machine ID 0

Data 2 bytes

Data 1	Data 2	Meaning	Notes
0	0	No Media	No media is loaded
1	0	Stop	Stopped
1	1	Play	Playing back
1	2	Ready On	Playback paused
2	8	Cue	Searching forward
2	9	Review	Searching backward
8	1	Record	Recording
8	2	Record Ready	Recording standby (record ready)
8	3	Information Writing	Some type of information is being written
F	F	Other	Some other status

Request/Preset MECHA STATUS SENSE [50]

**TRACK No. STATUS RETURN**

This is a return command in response to a "TRACK No. STATUS SENSE [55]" command.

This sends the number of the current take.

Command D5

Machine ID 0

Data 6 bytes

	Meaning	Notes
Data 1	00	"00" is always returned as a fixed value.
Data 2		
Data 3	Take number tens digit	
Data 4	Take number ones digit	
Data 5	Take number thousands digit	
Data 6	Take number hundreds digit	

Request/Preset TRACK No. STATUS SENSE [55]

**CURRENT TRACK INFORMATION RETURN**

This is a return command in response to a "CURRENT TRACK INFORMATION SENSE [57]" command.

Command D7  
 Machine ID 0/1  
 Data 12 bytes

	Meaning	Notes
Data 1	Take number tens digit	
Data 2	Take number ones digit	
Data 3	Take number thousands digit	
Data 4	Take number hundreds digit	
Data 5	Hour tens digit	
Data 6	Hour ones digit	
Data 7	Minute tens digit	
Data 8	Minute ones digit	
Data 9	Second tens digit	
Data 10	Second ones digit	
Data 11	Frame tens digit	
Data 12	Frame ones digit	

Request/Preset CURRENT TRACK INFORMATION SENSE [57]

**CURRENT TRACK TIME RETURN**

This is a return command in response to a "CURRENT TRACK TIME SENSE [58]" command.

This returns time information about the current take (or take being recorded). (Hour, minute, second, frame)

Command D8  
 Machine ID 0/1  
 Data 10 bytes

	Meaning	Notes
Data 1	Time Mode	10: Take elapsed time
Data 2		11: Take remaining time (during recording, possible recording time until maximum file size)
		12: Elapsed time of entire project
		13: Project remaining time (during recording, possible recording capacity of media)
		14: HMSF format timecode time
Data 3	Hour tens digit	
Data 4	Hour ones digit	
Data 5	Minute tens digit	
Data 6	Minute ones digit	
Data 7	Second tens digit	
Data 8	Second ones digit	
Data 9	Frame tens digit	
Data 10	Frame ones digit	

Request/Preset CURRENT TRACK TIME SENSE [58]

**TITLE RETURN**

This is a return command in response to a "TITLE SENSE [59]" command.

The name of the specified take is returned in UTF-8 format.

Command D9

Machine ID 0

Data 5-123 bytes

	Meaning	Notes
Data 1	Take number tens digit	
Data 2	Take number ones digit	
Data 3	Take number thousands digit	
Data 4	Take number hundreds digit	
Data 5 - Data123	Title character string	UTF-8

- The title is between 1 byte and 119 bytes long.

Request/Preset TITLE SENSE [59]

**TOTAL TRACK No. / TOTAL TIME RETURN**

This is a return command in response to a "TOTAL TRACK No./TOTAL TIME SENSE [5D]" command.

This returns the total number of takes and total time of the selected playback area.

Command DD

Machine ID 0

Data 12 bytes

	Meaning	Notes
Data 1	Total number of takes tens digit	If Data 1-Data 4 is "0000", the session does not contain takes/entries or no media is loaded.
Data 2	Total number of takes ones digit	
Data 3	Total number of takes thousands digit	
Data 4	Total number of takes hundreds digit	
Data 5	Hour tens digit	
Data 6	Hour ones digit	
Data 7	Minute tens digit	
Data 8	Minute ones digit	
Data 9	Second tens digit	
Data 10	Second ones digit	
Data 11	Frame tens digit	
Data 12	Frame ones digit	

Request/Preset TOTAL TRACK No. / TOTAL TIME SENSE [5D]

**KEYBOARD TYPE RETURN**

This is a return command in response to a "KEYBOARD TYPE SENSE [5F]" command.

This returns the type of keyboard connected.

Command DF

Machine ID 0

Data 2 bytes

Data 1	Data 2	Meaning	Notes
0	0	Japanese Keyboard	Japanese-language keyboard
0	1	Japanese Keyboard	English-language keyboard

Request/Preset KEYBOARD TYPE SENSE [5F]

**ERROR SENSE REQUEST**

This command is returned when the error status changes.

Send ERROR SENSE [78] from the controlling device to check the error details.

Command F0  
 Machine ID 0  
 Data none  
 Request/Preset none

**CAUTION SENSE REQUEST**

This command is returned when the caution status changes.

Send CAUTION SENSE [79] from the controlling device to check the caution details.

Command F1  
 Machine ID 0  
 Data none  
 Request/Preset none

**ILLEGAL STATUS**

This command is returned when an invalid command or data is sent to the controlled device.

If this command is returned from the controlled device, have the controlling device send a command or data that complies with the specifications.

Command F2  
 Machine ID 0  
 Data none  
 Request/Preset none

**CHANGE STATUS**

This command notifies that the controlled device operation or mode has changed.

Command F6  
 Machine ID 0  
 Data 2 bytes

Data 1	Data 2	Meaning	Notes
0	0	Changed Mechanical Status	Operation status has changed
0	3	Changed Track	Take number has changed

Request/Preset none

**ERROR SENSE RETURN**

This is a return command in response to an "ERROR SENSE [78]" command.

This returns the last error status.

Command F8

Machine ID 0

Data 2 bytes

Data 1	N2	Error code (N1-N2N3)	
Data 2	N3		
Data 3	0		
Date	N1		
		0-00	No Error
		1-01	Rec Error (error related to recording)
		1-02	Device Error (error related to device)
		1-09	Information Write Error (error that occurred during recording completion)
		1-FF	Other Error (error other than those above; check the unit)

Request/Preset ERROR SENSE [78]

**CAUTION SENSE RETURN**

This is a return command in response to a "CAUTION SENSE [79]" command.

This returns the last caution status.

Command F9

Machine ID 0

Data 2 bytes

Data 1	N2	Caution code (N1-N2N3)	
Data 2	N3		
Data 3	0		
Data 4	N1		
		0-00	No Caution
		1-02	Media Error (error related to media)
		1-06	Media Full (media has no open space)
		1-07	Take Full (maximum take capacity reached)
		1-09	Digital Unlock (digital input is unlocked)
		1-0B	Can't REC (recording not possible)
		1-0C	Write Protected (media is write protected)
		1-0D	Not Execute (function cannot be executed)
		1-0F	Can't Edit (editing is not possible)
		1-13	Can't Select (selection is not possible)
		1-14	Track Protected (track is protected)
		1-16	Name Full (maximum character number limit for name setting has been reached)
		1-1E	Play Error (error related to playback)
		1-FF	Other Caution (caution other than those above; check the unit)

Request/Preset CAUTION SENSE [79]

**VENDER COMMAND RETURN**

This is a return command in response to COMMAND [7F]. For details, see "Vender command details" below.

## Vender command details

DA-6400/DA-6400dp vender commands are structured with the following format.

Byte 1	2	3	4	5	6	7	8	...	n-1	n
ID	Command		Data 1	Data 2	Data 3	Data 4	Data 5	...	LF	CR
'0'	'7F' or 'FF'		Category Code		Sub Command		Parameter	...	LF	CR

Category Code: Category code (2-byte ASCII) to distinguish vender commands by function

Sub Command: Unique sub-command code (2-byte ASCII) within a category

Parameter Parameter added to a command code (ASCII, length depends on sub-command)

The list of category codes is as follows.

Category Code	Category	Explanation
02	Project	Function related to projects
03	Mark	Function related to marks
06	Timecode	Setting related to timecode
08	Recording	Setting related to recording
10	Media formatting	Operation related to media
11	External control	Setting related to external control
12	Inputs and outputs	Setting related to inputs and outputs
13	Meter	Setting related to meters
14	System	Setting related to the system
42	Take editing	Editing by individual take

**PROJECT SKIP**

This changes the project.

If the current project is the last project, specifying "00" will move to the first project.

If the current project is the first project, specifying "01" will move to the last project.

Command 7F

Category Code 02

Sub Command 1A

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Project next	Move to the next project
0	1	Project previous	Move to the project one before the current project.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return none

**PROJECT SELECT**

Specify the project number to change the current project.

Command 7F

Category Code 02

Sub Command 23

Machine ID 0

Parameter 8 bytes

	Meaning	Notes
Data 5	0000	Fixed value: specify "0000"
Data 6		
Data 7		
Data 8		
Data 9	Project number tens digit	Project number Example: "5400" is project 54
Data 10	Project number ones digit	
Data 11	Project number thousands digit	
Data 12	Project number hundreds digit	

- If a number is specified for a project that does not exist on the media, the unit will return ILLEGAL [F2].
- If the current project number is specified, the unit will return ILLEGAL [F2].

Return none



### CREATE PROJECT

This creates a new project.

During creation, the Project Name set using "CREATE PROJECT NAME PRESET [7F024001]" (described below) will be used.

At the beginning and end of execution, the controlled device will return "CREATE PROJECT ACKNOWLEDGE [FF02C000]".

Command	7F
Category Code	02
Sub Command	4000
Machine ID	0
Parameter	none
Return	CREATE PROJECT ACKNOWLEDGE [FF02C000]

### CREATE PROJECT NAME PRESET

This sets the project name used when a new project is created.

Use this before executing "PROJECT CREATE [7F024000]".

If FF is sent for Data 7/8, the controlled device will return "CREATE PROJECT NAME RETURN [FF02C001]".

If Data 7/8 is anything other than FF, a maximum of 117 bytes in UTF-8 format can be sent from Data 7 on.

Command	7F
Category Code	02
Sub Command	4001
Machine ID	0
Parameter	2-117 bytes
Return	CREATE PROJECT NAME RETURN [FF02C001]

### REBUILD PROJECT

This rebuilds the current project/session.

At the beginning and end of rebuilding, "REBUILD PROJECT ACKNOWLEDGE [7F02C2]" will be returned.

Command	7F
Category Code	02
Sub Command	42
Machine ID	0
Parameter	none
Return	REBUILD PROJECT ACKNOWLEDGE [7F02C2]

**DELETE PROJECT**

This deletes a project.

Specify "0000" for Data 5-8.

Data 9-12 specifies the project number.

At the beginning and end of deletion, "DELETE PROJECT ACKNOWLEDGE [7F02C4]" will be returned.

Command 7F

Category Code 02

Sub Command 44

Machine ID 0

Parameter 8 bytes

	Meaning	Notes
Data 5	0000	Fixed value: specify "0000"
Data 6		
Data 7		
Data 8		
Data 9	Project number tens digit	Project number Example: "5400" is project 54
Data 10	Project number ones digit	
Data 11	Project number thousands digit	
Data 12	Project number hundreds digit	

Return DELETE PROJECT ACKNOWLEDGE [7F02C4]

**PROJECT No. STATUS SENSE**

This requests that the number of the current project be returned.

Command 7F

Category Code 02

Sub Command 55

Machine ID 0

Parameter none

Return PROJECT No. RETURN [FF02D5]

**PROJECT NAME SENSE**

This requests that the name of the specified project be returned.

Command 7F

Category Code 02

Sub Command 5A

Machine ID 0

Parameter 4 bytes

	Meaning	Notes
Data 5	Project number tens digit	Project number Example: "5400" is project 54
Data 6	Project number ones digit	
Data 7	Project number thousands digit	
Data 8	Project number hundreds digit	

- If a number is specified for a project that does not exist on the media, the unit will return ILLEGAL [F2].

Return PROJECT NAME RETURN [FF02DA]

**TOTAL PROJECT No. SENSE**

This requests that the name of the specified project be returned.

This requests that the total number of projects on the current media be returned.

Command 7F  
 Category Code 02  
 Sub Command 5E  
 Machine ID 0  
 Parameter none  
 Return TOTAL PROJECT No. RETURN [FF02DE]

**MARK SET**

This sets a mark on the controlled device.

Set a mark at the current time counter position.

Command 7F  
 Category Code 03  
 Sub Command 10  
 Machine ID 0  
 Parameter none

**DIRECT MARK SKIP PRESET**

Specify a mark number to skip to it.

The mark number is the number counted from the beginning in chronological order.

After moving, the mode at the beginning of movement is retained.

Command 7F  
 Category Code 03  
 Sub Command 23  
 Machine ID 0  
 Parameter 4 bytes

	Meaning	Notes
Data 5	Mark number tens digit	Mark number Example: "9800" is mark 98
Data 6	Mark number ones digit	
Data 7	Mark number thousands digit	
Data 8	Mark number hundreds digit	

- If a number is specified for a mark that does not exist in the current take, the unit will return ILLEGAL [F2].

Return none

**MARK TIME PRESET**

Specify a mark number and change its time.

The mark number is the number counted from the beginning in chronological order.

Command 7F

Category Code 03

Sub Command 24

Machine ID 0

Parameter 12 bytes

	Meaning	Notes
Data 5	Mark number tens digit	Mark number Example: "9800" is mark 98
Data 6	Mark number ones digit	
Data 7	Mark number thousands digit	
Data 8	Mark number hundreds digit	
Data 9	Hour tens digit	
Data 10	Hour ones digit	
Data 11	Minute tens digit	
Data 12	Minute ones digit	
Data 13	Second tens digit	
Data 14	Second ones digit	
Data 15	Frame tens digit	
Data 16	Frame ones digit	

- If a number is specified for a mark that does not exist in the current take, the unit will return ILLEGAL [F2].
- If a time longer than the current take is specified, the unit will return ILLEGAL [F2].

Return none

**MARK NAME PRESET**

Specify a mark number and change the name.

The mark number is the number counted from the beginning in chronological order.

A maximum of 10 bytes can be sent from Data 9 on.

Command 7F  
 Category Code 03  
 Sub Command 29  
 Machine ID 0  
 Parameter 5-18 bytes

	Meaning	Notes
Data 5	Mark number tens digit	Mark number Example: "9800" is mark 98
Data 6	Mark number ones digit	
Data 7	Mark number thousands digit	
Data 8	Mark number hundreds digit	
Data 9 – Data 18	Title character string	

- If a number is specified for a mark that does not exist in the current take, the unit will return ILLEGAL [F2].
- If a name that is not valid is specified from Data 9 on, the unit will send ILLEGAL [F2].

Return none

**DELETE MARK**

Delete a mark on the controlled device.

A mark number can be specified to delete a mark. If no mark number is specified, the nearest mark before the current position will be deleted.

The mark number is the number counted from the beginning in chronological order.

Command 7F  
 Category Code 03  
 Sub Command 44  
 Machine ID 0  
 Parameter none or 4 bytes

When parameter is 4 bytes

	Meaning	Notes
Data 5	Mark number tens digit	Mark number Example: "9800" is mark 98
Data 6	Mark number ones digit	
Data 7	Mark number thousands digit	
Data 8	Mark number hundreds digit	

- If a number is specified for a mark that does not exist in the current take, the unit will return ILLEGAL [F2].

Return none

**MARK No. STATUS SENSE**

This requests that the number of the nearest mark before the current position be returned.

The mark number is the number counted from the beginning in chronological order.

Command 7F  
 Category Code 03  
 Sub Command 55  
 Machine ID 0  
 Parameter none  
 Return MARK No. RETURN [FF03D5]

**MARK TIME SENSE**

This requests that the time of the specified mark be returned.

The mark number is the number counted from the beginning in chronological order.

Command 7F  
 Category Code 03  
 Sub Command 58  
 Machine ID 0  
 Parameter 4 bytes

	Meaning	Notes
Data 5	Specified number tens digit	Mark number Example: "9800" is mark 98
Data 6	Specified number ones digit	
Data 7	Specified number thousands digit	
Data 8	Specified number hundreds digit	

- If a number is specified for a mark that does not exist in the current take, the unit will return ILLEGAL [F2].

Return MARK TIME RETURN [FF03D8]

**MARK NAME SENSE**

This requests that the name of the specified mark be returned.

The mark number is the number counted from the beginning in chronological order.

Command 7F  
 Category Code 03  
 Sub Command 59  
 Machine ID 0  
 Parameter 4 bytes

	Meaning	Notes
Data 5	Specified number tens digit	Mark number Example: "9800" is mark 98
Data 6	Specified number ones digit	
Data 7	Specified number thousands digit	
Data 8	Specified number hundreds digit	

- If a number is specified for a mark that does not exist in the current take, the unit will return ILLEGAL [F2].

Return MARK NAME RETURN [FF03D9]

**TOTAL MARK No SENSE**

This requests that the total number of marks in the current take be returned.

Command	7F
Category Code	03
Sub Command	5D
Machine ID	0
Parameter	none
Return	TOTAL MARK No. RETURN [FF03DD]

**CHASE SELECT**

This turns the chase mode of the controlled device on/off.

A return command is only sent when Sense [FF] is specified.

Command 7F

Category Code 06

Sub Command 00

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Chase OFF	Chase mode off
0	1	Chase ON	Chase mode on
F	F	Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return CHASE RETURN [FF0680]



**TC START TIME PRESET**

Change the TC START TIME on the controlled device.

A return command is only sent when Sense [FF] is specified for Data 5 and Data 6.

Command 7F

Category Code 06

Sub Command 10

Machine ID 0

Parameter 8 bytes

	Meaning	Notes
Data 5	Hour tens digit	0-9
Data 6	Hour ones digit	
Data 7	Minute tens digit	
Data 8	Minute ones digit	
Data 9	Second tens digit	
Data 10	Second ones digit	
Data 11	Frame tens digit	
Data 12	Frame ones digit	

- If the unit receives any Data set outside the range, it will send ILLEGAL [F2].

Return TC START TIME RETURN [FF0690]

**TC USER BITS PRESET**

Change the TC USER BITS on the controlled device.

A return command is only sent when Sense [FF] is specified for Data 5 and Data 6.

Command 7F

Category Code 06

Sub Command 11

Machine ID 0

Parameter 8 bytes

	Meaning	Notes
Data 5	Hour tens digit	0-9/A-F
Data 6	Hour ones digit	
Data 7	Minute tens digit	
Data 8	Minute ones digit	
Data 9	Second tens digit	
Data 10	Second ones digit	
Data 11	Frame tens digit	
Data 12	Frame ones digit	

- If the unit receives any Data set outside the range, it will send ILLEGAL [F2].

Return TC USER BITS RETURN [FF0691]

**TC RESTART**

This restarts the controlled device TC GENERATOR from the START TIME.

If the generator mode is anything other than FREE RUN or REC RUN, this command will be ignored.

Command 7F

Category Code 06

Sub Command 12

Machine ID 0

Parameter none

Return none

**TC GENERATOR MODE SELECT**

This sets the TC GENERATOR mode of the controlled device.

A return command is only sent when Sense [FF] is specified.

Command 7F

Category Code 06

Sub Command 20

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	FREE RUN	FREE RUN timecode generator mode
0	1	FREE ONCE	FREE ONCE timecode generator mode
0	2	TIME OF DAY	TIME OF DAY timecode generator mode
0	3	JAM SYNC	JAM SYNC timecode generator mode
0	4	REGEN	REGEN timecode generator mode
0	5	REC RUN	REC RUN timecode generator mode
0	6	TC SYNC REC	TC SYNC REC timecode generator mode
F	F	Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return TC GENERATOR MODE RETURN [FF06A0]

**TC FRAME TYPE SELECT**

This sets the TC FRAME TYPE of the controlled device.

A return command is only sent when Sense [FF] is specified for Data 5 and Data 6.

Command 7F

Category Code 06

Sub Command 21

Machine ID 0

Parameter 2 or 4 bytes

Data 5	Data 6	Data 7	Data 8	Meaning	Notes
2	3			23.976F	23.976F timecode frame type
2	4			24F	24F timecode frame type
2	5			25F	25F timecode frame type
2	9	D	F	29.97DF	29.97DF timecode frame type
2	9			29.97NDF	29.97NDF timecode frame type
3	0	D	F	30DF	30DF timecode frame type
3	0			30NDF	30NDF timecode frame type
F	F			Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return TC FRAME TYPE RETURN [FF06A1]

**TC OUTPUT MODE SELECT**

This sets the TC mode output by the TC output connector of the controlled device.

A return command is only sent when Sense [FF] is specified.

Command 7F

Category Code 06

Sub Command 30

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Generator Out	Output Generator TC
0	1	Play Out	Output the take playback TC
F	F	Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return TC OUTPUT MODE RETURN [FF06B0]

**CLOCK MASTER SELECT**

Set the master clock of the controlled device.

A return command is only sent when Sense [FF] is specified.

Command 7F

Category Code 06

Sub Command 40

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Internal	Internal master clock
0	1	WORD	Word master clock
0	2	VIDEO	Video master clock
0	3	SLOT1	Master clock slot 1
0	4	SLOT2	Master clock slot 2
F	F	Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return CLOCK MASTER RETURN [FF06C0]

**WORD THRU SELECT**

This sets the WORD/VIDEO SETUP of the controlled device.

A return command is only sent when Sense [FF] is specified.

Command 7F

Category Code 06

Sub Command 48

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	WORD OUT/TERM ON	Word out/termination on
0	1	WORD OUT/TERM OFF	Word out/termination off
1	1	WORD THRU/TERM OFF	Word thru/termination off
F	F	Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return WORD THRU RETURN [FF06C8]

**RECORD FUNCTION SELECT**

This turns the record function of the controlled device on/off.

This turns the record function on/off for the channel number specified by Data 5-8.

If 0 is specified for the channel number, the record function setting for all channels can be specified with Data 9.

If 0 is specified for the channel number, set only Data 9.

If 0 is specified for the channel number and settings are made for Data 10 and on, the unit will return ILLEGAL [F2].

A return command is only sent when Sense [FF] is specified for Data 5 and Data 6.

Command 7F

Category Code 08

Sub Command 00

Machine ID 0

Parameter 5-68 bytes

	Meaning	Notes
Data 5	Start channel number tens digit	Start channel number Example: "6400" is channel 64 0000: all channels
Data 6	Start channel number ones digit	
Data 7	Start channel number thousands digit	
Data 8	Start channel number hundreds digit	
Data 9	Record function settings	0 = off/1 = on If 0 is specified as the start channel, use only Data 9
.		
.		
Data72		

- If the unit receives any Data set outside the range, it will send ILLEGAL [F2].

Return RECORD FUNCTION RETURN [FF0880]

**INPUT MONITOR FUNCTION SELECT**

This turns the input monitoring function of the controlled device on/off.

This turns the input monitoring function on/off for the channel number specified by Data 5-8.

If 0 is specified for the channel number, the input monitoring function setting for all channels can be specified with Data 9.

If 0 is specified for the channel number, set only Data 9.

If 0 is specified for the channel number and settings are made for Data 10 and on, the unit will return ILLEGAL [F2].

A return command is only sent when Sense [FF] is specified for Data 5 and Data 6.

Command           7F  
 Category Code    08  
 Sub Command     01  
 Machine ID       0  
 Parameter        5-68 bytes

	Meaning	Notes
Data 5	Start channel number tens digit	Start channel number Example: "6400" is channel 64 0000: all channels
Data 6	Start channel number ones digit	
Data 7	Start channel number thousands digit	
Data 8	Start channel number hundreds digit	
Data 9	Monitor function settings	0 = off/1 = on If 0 is specified as the start channel, use only Data 9
.		
.		
Data72		

• If the unit receives any Data set outside the range, it will send ILLEGAL [F2].

Return            INPUT MONITOR FUNCTION RETURN [FF0881]

**BIT LENGTH SELECT**

This sets the bit length used by the controlled device.

A return command is only sent when Sense [FF] is specified.

Command 7F

Category Code 08

Sub Command 22

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
1	6	16bit	Create audio files with a 16-bit setting
2	4	24bit	Create audio files with a 24-bit setting
F	F	Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return BIT LENGTH RETURN [FF08A2]

**MAX FILE SIZE SELECT**

Set the maximum file size of the controlled device.

A return command is only sent when Sense [FF] is specified for Data 5 and Data 6.

Command 7F

Category Code 08

Sub Command 23

Machine ID 0

Parameter 2 or 6 bytes

Data 5/6	Data 7	Data 8	Data 9	Data10	Meaning	Notes
00	4	0	0	6	640MB	Capacity (MB)
	2	4	1	0	1GB (1024MB)	
	4	8	2	0	2GB (2048MB)	
01	Minute tens digit	Minute ones digit	Minute thousands digit	Minute hundreds digit		Time (minutes): 240 minutes maximum Examples: "0100" is 1 minute "4002" is 240 minutes
FF					Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return MAX FILE SIZE RETURN [FF08A3]

**PAUSE MODE SELECT**

This sets the PAUSE mode of the controlled device.

A return command is only sent when Sense [FF] is specified.

Command 7F

Category Code 08

Sub Command 24

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	SPLIT	Divide the file
0	1	NO SPLIT	Do not divide the file
F	F	Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return PAUSE MODE RETURN [FF08A4]

**USER WORD PRESET**

This sets the FILE NAME USER WORD of the controlled device.

A maximum of 31 bytes can be sent from Data 5 on.

Command 7F  
 Category Code 08  
 Sub Command 2A  
 Machine ID 0  
 Parameter 1-31 bytes

	Meaning	Notes
Data 5 – Data35	User word character string	

- If a name that is not valid is specified from Data 5 on, the unit will send ILLEGAL [F2].

Return none

**TIME INTERVAL MARKER TIME PRESET**

This sets the TIME INTERVAL MARKER TIME of the controlled device.

A return command is only sent when Sense [FF] is specified for Data 5 and Data 6.

Command 7F  
 Category Code 08  
 Sub Command 32  
 Machine ID 0  
 Parameter 2 or 4 bytes

	Meaning	Notes
Data 5	Interval time tens digit	Interval time (minutes) Example: "2301" is an interval of 123 minutes (240 minutes maximum)
Data 6	Interval time ones digit	
Data 7	Interval time thousands digit	
Data 8	Interval time hundreds digit	

- If the unit receives any Data set outside the range, it will send ILLEGAL [F2].

Return TIME INTERVAL MARKER RETURN [FF08B2]

**AUDIO OVER MARKER SELECT**

This sets the AUDIO OVER MARKER of the controlled device.

A return command is only sent when Sense [FF] is specified.

Command 7F  
 Category Code 08  
 Sub Command 41  
 Machine ID 0  
 Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Marker Off	AUDIO OVER MARKER OFF
0	1	Marker On	AUDIO OVER MARKER ON
F	F	Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return AUDIO OVER MARKER RETURN [FF08C1]

**TIME INTERVAL MARKER SELECT**

This sets the TIME INTERVAL MARKER of the controlled device.

A return command is only sent when Sense [FF] is specified.

Command 7F

Category Code 08

Sub Command 42

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Marker Off	TIME INTERVAL MARKER OFF
0	1	Marker On	TIME INTERVAL MARKER ON
F	F	Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return TIME INTERVAL MARKER RETURN [FF08C2]

**SYNC UNLOCK MARKER SELECT**

This sets the SYNC UNLOCK MARKER of the controlled device.

A return command is only sent when Sense [FF] is specified.

Command 7F

Category Code 08

Sub Command 43

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Marker Off	SYNC UNLOCK MARKER OFF
0	1	Marker On	SYNC UNLOCK MARKER ON
F	F	Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return SYNC UNLOCK MARKER RETURN [FF08C3]

**REC FS SELECT**

This sets the REC FS used by the controlled device.

A return command is only sent when Sense [FF] is specified for Data 5 and Data 6.

Command 7F

Category Code 08

Sub Command 50

Machine ID 0

Parameter 2 or 6 bytes

Data 5	Data 6	Data 7	Data 8	Data 9	Data 10	Meaning	Notes
4	4	0	0	0	0	44.1 kHz	
4	8	0	0	0	0	48 kHz	
8	8	0	0	0	0	88.2 kHz	
9	6	0	0	0	0	96 kHz	
F	F					Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return REC FS RETURN [FF08D0]



**USER WORD SENSE**

This requests that the USER WORD be returned.

Command 7F  
 Category Code 08  
 Sub Command 5A  
 Machine ID 0  
 Parameter none  
 Return USER WORD RETURN [FF08DA]

**FILE NAME SELECT**

This sets the FILE NAME used by the controlled device.

A return command is only sent when Sense [FF] is specified.

Command 7F  
 Category Code 08  
 Sub Command 60  
 Machine ID 0  
 Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Date & Time	The date and time is used for the file name
0	1	Folder	The name of the current folder is used for the file name
1	1	User Word	The user word is used for the file name
F	F	Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return FILE NAME RETURN [FF08E0]

**MEDIA REMAIN SENSE**

This requests that the open space on the media of the controlled device be returned.

If the media is not specified, information about the current media will be returned.

Open media space is returned in MB.

Command 7F  
 Category Code 10  
 Sub Command 01  
 Machine ID 0  
 Parameter none or 2 bytes

When parameter is 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	SSD	
0	1	USB	

- "OMB" will be returned if media that is not loaded has been specified.
- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return MEDIA REMAIN RETURN [FF1081]

**MEDIA FORMAT**

This formats the specified media of the controlled device.

At the beginning and end of execution, the controlled device will return "MEDIA FORMAT ACKNOWLEDGE [FF10C4]".

Command 7F

Category Code 10

Sub Command 44

Machine ID 0

Parameter 4bytes

	Meaning	Notes
Data 5	00 : Quick Format	Formatting method
Data 6	01 : Full Format	
Data 7	00 : SSD	Formatted media
Data 8		

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return MEDIA FORMAT ACKNOWLEDGE [FF10C4]

**AUX ASSIGN KEY SELECT**

This sets the AUX KEY ASSIGN of the controlled device.

A return command is only sent when Sense [FF] is specified.

Command 7F

Category Code 11

Sub Command 10

Machine ID 0

Parameter 4bytes

	Meaning	Notes
Data 5	01-06: AUX1-AUX6	AUX KEY
Data 6		
Data 7	00 : PLAY/PAUSE 01 : PAUSE 02 : REC 03 : FADER REC 04 : FADER START 05 : REW 06 : F.FWD 07 : TAKE SKIP- 08 : TAKE SKIP+ 09 : MARK SKIP- 0A : MARK SKIP+ 0B : TAKE/MARK SKIP- 0C : TAKE/MARK SKIP+ 0D : MARK FF : Sense	Function
Data 8		

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return AUX ASSIGN KEY RETURN [FF1190]

**AUX ASSIGN TALLY SELECT**

This sets the AUX TALLY ASSIGN of the controlled device.

A return command is only sent when Sense [FF] is specified.

Command 7F

Category Code 11

Sub Command 11

Machine ID 0

Parameter 4bytes

	Meaning	Notes
Data 5	01-05: AUX1-AUX5	AUX TALLY
Data 6		
Data 7	00 : STOP 01 : PLAY 02 : PAUSE 03 : REC 04 : EOM 05 : ERROR 06 : EOM/ERROR FF : Sense	Function
Data 8		

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return AUX ASSIGN TALLY RETURN [FF1191]

**INPUT ROUTING SELECT**

This sets the INPUT ROUTING used by the controlled device.

This sets the INPUT ROUTING from the start channel number specified by Data 5-8.

A return command is only sent when Sense [xxFF] is specified for Data 5-8.

Command 7F  
 Category Code 12  
 Sub Command 50  
 Machine ID 0  
 Parameter 4-260 bytes

	Meaning	Notes
Data 5	Start channel number tens digit	Start channel number Example: "6300" is channel 63 xxFF: Sense (xx is ignored)
Data 6	Start channel number ones digit	
Data 7	Always "0"	
Data 8	Start channel number hundreds digit	Start channel input setting Source slot number: 0 = Slot 1/1 = Slot 2 Source channel setting Example: "3200" is Slot 1 channel 32
Data 9	Source channel number tens digit	
Data10	Source channel number ones digit	
Data11	Source slot number	
Data12	Source channel number hundreds digit	
Data13	Source channel number tens digit	Input setting for channel 1 higher than start channel Source channel setting Example: "6410" is Slot 2 channel 64
Data14	Source channel number ones digit	
Data15	Source slot number	
Data16	Source channel number hundreds digit	
.		
.		
.		

• If the unit receives any Data set outside the range, it will send ILLEGAL [F2].

Return INPUT ROUTING RETURN [FF12D0]

**OUTPUT ROUTING SELECT**

This sets the OUTPUT ROUTING used by the controlled device.

This sets the OUTPUT ROUTING from the slot and channel number specified by Data 5-8.

A return command is only sent when Sense [xxFF] is specified for Data 5-8. (xx = slot number)

Command 7F

Category Code 12

Sub Command 51

Machine ID 0

Parameter 4-260 bytes

	Meaning	Notes
Data 5	Start channel number tens digit	Set slot number: 0 = Slot 1/1 = Slot 2 Start channel number setting Example: "6300" is from Slot 1 channel 63 xxFF: Sense (xx = slot number)
Data 6	Start channel number ones digit	
Data 7	Slot number	
Data 8	Start channel number hundreds digit	Start channel output setting Example: "3200" is channel 32
Data 9	Source channel number tens digit	
Data10	Source channel number ones digit	
Data11	Always "0"	
Data12	Source channel number hundreds digit	
Data13	Source channel number tens digit	Output setting for channel 1 higher than start channel Example: "6400" is channel 64
Data14	Source channel number ones digit	
Data15	Always "0"	
Data16	Source channel number hundreds digit	
.		
.		
.		

- If the unit receives any Data set outside the range, it will send ILLEGAL [F2].

Return OUTPUT ROUTING RETURN [FF12D1]

**METER PEAK HOLD TIME PRESET**

This sets the METER PEAK HOLD TIME used by the controlled device.

A return command is only sent when Sense [FF] is specified.

Command 7F

Category Code 13

Sub Command 21

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Hold Time 0s	No peak hold
.			01-09: peak hold for this number of seconds
.			
.			
1	0	Hold Time 10s	Hold for 10 seconds
F	E	Hold Time Inf.	Hold until cleared
F	F	Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return METER PEAK HOLD TIME RETURN [FF13A1]

**METER PEAK CLEAR**

Clear meter peak holds on the controlled device.

Command 7F

Category Code 13

Sub Command 30

Machine ID 0

Parameter none

Return none

**DIGITAL REFERENCE LEVEL PRESET**

This sets the DIGITAL REFERENCE LEVEL used by the controlled device.

A return command is only sent when Sense [FF] is specified.

Command 7F

Category Code 14

Sub Command 20

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	9	Reference Level - 9dB	-9dB digital reference level
1	4	Reference Level -14dB	-14dB digital reference level
1	6	Reference Level -16dB	-16dB digital reference level
1	8	Reference Level -18dB	-18dB digital reference level
2	0	Reference Level -20dB	-20dB digital reference level
F	F	Sense	This requests that the preset contents be returned.

- If the unit receives any Data other than the above, it will send ILLEGAL [F2].

Return DIGITAL REFERENCE LEVEL RETURN [FF14A0]

**TAKE RENAME**

Change the name of a specified take in the current project on the controlled unit.

A maximum of 117 bytes in UTF-8 format can be sent from Data 9 on.

At the beginning and end of execution, the controlled device will return "TAKE RENAME ACKNOWLEDGE [FF4280]".

Command 7F  
 Category Code 42  
 Sub Command 00  
 Machine ID 0  
 Parameter 5 - 121 bytes

	Meaning	Notes
Data 5	Take number tens digit	Take number Example: "1400" is take 14
Data 6	Take number ones digit	
Data 7	Take number thousands digit	
Data 8	Take number hundreds digit	
Data 9 - 125	Take name	UTF-8

Return TAKE RENAME ACKNOWLEDGE [FF4280]

**TAKE ERASE**

Erase a specified take in the current project on the controlled unit.

At the beginning and end of execution, the controlled device will return "TAKE ERASE ACKNOWLEDGE [FF42B0]".

Command 7F  
 Category Code 42  
 Sub Command 30  
 Machine ID 0  
 Parameter 4 bytes

	Meaning	Notes
Data 5	Take number tens digit	Take number Example: "1400" is take 14
Data 6	Take number ones digit	
Data 7	Take number thousands digit	
Data 8	Take number hundreds digit	

Return TAKE RENAME ACKNOWLEDGE [FF4280]



**TAKE COPY**

Copy a specified take in the current project on the controlled unit to a specified folder.

The full pathname of the copy destination folder, which can have a maximum of 117 bytes in UTF-8 format, is specified from Data 9 on.

When designating the copy destination folder, use "A:¥" for SSD and "B:¥" for USB followed by the folder name. At the beginning and end of execution, the controlled device will return "TAKE COPY ACKNOWLEDGE [FF42D2]".

Command           7F  
 Category Code    42  
 Sub Command     52  
 Machine ID       0  
 Parameter        7 - 121 bytes

	Meaning	Notes
Data 5	Take number tens digit	Take number Example: "1400" is take 14
Data 6	Take number ones digit	
Data 7	Take number thousands digit	
Data 8	Take number hundreds digit	
Data 9 - 125	Copy destination name	UTF-8 (full path)

Return            TAKE COPY ACKNOWLEDGE [FF42D2]

**CREATE PROJECT ACKNOWLEDGE**

This is a return command in response to a "CREATE PROJECT [7F024000]" command.

This is returned at the start of execution and with the result.

Command FF  
 Category Code 02  
 Sub Command C000  
 Machine ID 0  
 Parameter 2 bytes

Data 7	Data 8	Meaning	Notes
0	0	Start	Execution started
1	1	End (OK)	Execution completed successfully
1	2	End (NG)	Execution did not complete or it failed

Request/Preset CREATE PROJECT [7F024000]

**CREATE PROJECT NAME RETURN**

This is a return command in response to a "CREATE PROJECT NAME PRESET [7F024001]" command.

This returns the project name when CREATE PROJECT is executed.

Data 7 and later is returned in UTF-8 format.

Command FF  
 Category Code 02  
 Sub Command C001  
 Machine ID 0  
 Parameter 5-117 bytes  
 Request/Preset CREATE PROJECT NAME PRESET [7F024001]

**REBUILD PROJECT ACKNOWLEDGE**

This is a return command in response to a "REBUILD PROJECT [7F0242]" command.

This is returned at the start of execution and with the result.

Command FF  
 Category Code 02  
 Sub Command C2  
 Machine ID 0  
 Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Start	Execution started
1	1	End ( OK )	Execution completed successfully
1	2	End ( NG )	Execution was not possible or failed

Request/Preset DELETE PROJECT [7F0242]

**DELETE PROJECT ACKNOWLEDGE**

This is a return command in response to a "DELETE PROJECT [7F0244]" command.

This is returned at the start of execution and with the result.

Command FF  
 Category Code 02  
 Sub Command C4  
 Machine ID 0  
 Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Start	Execution started
1	1	End ( OK )	Execution completed successfully
1	2	End ( NG )	Execution was not possible or failed

Request/Preset DELETE SESSION/PROJECT [7F0244]

**PROJECT No. RETURN**

This is a return command in response to a "PROJECT No. STATUS SENSE [7F0255]" command.

This sends the number of the current session.

Command FF  
 Category Code 02  
 Sub Command D5  
 Machine ID 0  
 Parameter 8 bytes

	Meaning	Notes
Data 5	Always "0000"	
Data 6		
Data 7		
Data 8		
Data 9	Project number tens digit	Project number Example: "5400" is project 54
Data 10	Project number ones digit	
Data 11	Project number thousands digit	
Data 12	Project number hundreds digit	

Request/Preset PROJECT No. STATUS SENSE [7F0255]

**PROJECT NAME RETURN**

This is a return command in response to a "PROJECT NAME SENSE [7F025A]" command.

This returns the project name.

The project name is returned by Data 9 and later in UTF-8 format.

Command FF  
 Category Code 02  
 Sub Command DA  
 Machine ID 0  
 Parameter 5-119 bytes

	Meaning	Notes
Data 5	Project number tens digit	Project number Example: "5400" is project 54
Data 6	Project number ones digit	
Data 7	Project number thousands digit	
Data 8	Project number hundreds digit	
Data 9 - Data123	Title	Project name (UTF-8)

- The title length is between 2 and 115 bytes.

Request/Preset PROJECT NAME SENSE [7F025A]

**TOTAL PROJECT No. RETURN**

This is a return command in response to a "TOTAL PROJECT No. SENSE [7F025E]" command.

This returns the total number of projects.

Command FF  
 Category Code 02  
 Sub Command DE  
 Machine ID 0  
 Parameter 4 bytes

	Meaning	Notes
Data 5	Total project number tens digit	If Data 5–Data 8 is 0000, this means that there are no projects or no media is loaded.
Data 6	Total project number ones digit	
Data 7	Total project number thousands digit	
Data 8	Total project number hundreds digit	

Request/Preset TOTAL PROJECT No. SENSE [7F025E]

**PROJECT CHANGE STATUS**

This is returned when the project is changed.

The number of the project after the change is returned.

Command FF  
 Category Code 02  
 Sub Command F6  
 Machine ID 0  
 Parameter 8 bytes

	Meaning	Notes
Data 5	Always "0000"	
Data 6		
Data 7		
Data 8		
Data 9	Project number tens digit	Project number Example: "5400" is project 54
Data 10	Project number ones digit	
Data 11	Project number thousands digit	
Data 12	Project number hundreds digit	

Request/Preset none

**MARK No. RETURN**

This is a return command in response to a "MARK No. STATUS SENSE [7F0355]" command.

This sends the number of the current mark.

Command FF

Category Code 03

Sub Command D5

Machine ID 0

Parameter 4 bytes

	Meaning	Notes
Data 5	Mark number tens digit	Mark number Example: "9800" is mark 98
Data 6	Mark number ones digit	
Data 7	Mark number thousands digit	
Data 8	Mark number hundreds digit	

Request/Preset MARK No. STATUS SENSE [7F0355]

**MARK TIME RETURN**

This is a return command in response to a "MARK TIME SENSE [7F0358]" command.

Command FF

Category Code 03

Sub Command D8

Machine ID 0

Parameter 12 bytes

	Meaning	Notes
Data 5	Mark number tens digit	Mark number Example: "9800" is mark 98
Data 6	Mark number ones digit	
Data 7	Mark number thousands digit	
Data 8	Mark number hundreds digit	
Data 9	Hour tens digit	
Data 10	Hour ones digit	
Data 11	Minute tens digit	
Data 12	Minute ones digit	
Data 13	Second tens digit	
Data 14	Second ones digit	
Data 15	Frame tens digit	
Data 16	Frame ones digit	

Request/Preset MARK TIME SENSE [7F0358]

**MARK NAME RETURN**

This is a return command in response to a "MARK NAME SENSE [7F0359]" command.

Command FF  
 Category Code 03  
 Sub Command D9  
 Machine ID 0  
 Parameter 4-14 bytes

	Meaning	Notes
Data 5	Mark number tens digit	Mark number Example: "9800" is mark 98
Data 6	Mark number ones digit	
Data 7	Mark number thousands digit	
Data 8	Mark number hundreds digit	
Data 9 -18	Mark name	

Request/Presets MARK NAME SENSE [7F0359]

**TOTAL MARK No. RETURN**

This is a return command in response to a "TOTAL MARK No. SENSE [7F035D]" command.

This returns the total number of marks.

Command FF  
 Category Code 03  
 Sub Command DD  
 Machine ID 0  
 Parameter 4 bytes

	Meaning	Notes
Data 5	Total number of marks tens digit	If Data 5-Data 8 is 0000, this means that there are no marks in the take or no media is loaded.
Data 6	Total number of marks ones digit	
Data 7	Total number of marks thousands digit	
Data 8	Total number of marks hundreds digit	

Request/Presets TOTAL MARK No. SENSE [7F035D]

**CHASE RETURN**

This is a return command in response to a "CHASE SELECT [7F0600]" command.

This returns the chase mode on/off status.

Command FF  
 Category Code 06  
 Sub Command 80  
 Machine ID 0  
 Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Chase OFF	Chase mode off
0	1	Chase ON	Chase mode on

Request/Preset CHASE SELECT [7F0600]

**TC START TIME RETURN**

This is a return command in response to a "TC START TIME PRESET [7F0610]" command.

This returns the set TC START TIME value.

Command FF  
 Category Code 06  
 Sub Command 90  
 Machine ID 0  
 Parameter 8 bytes

	Meaning	Notes
Data 5	Hour tens digit	0-9
Data 6	Hour ones digit	
Data 7	Minute tens digit	
Data 8	Minute ones digit	
Data 9	Second tens digit	
Data 10	Second ones digit	
Data 11	Frame tens digit	
Data 12	Frame ones digit	

Request/Preset TC START TIME PRESET [7F0610]

**TC USER BITS RETURN**

This is a return command in response to a "TC USER BITS PRESET [7F0611]" command.

This returns the set TC USER BITS value.

Command FF  
 Category Code 06  
 Sub Command 91  
 Machine ID 0  
 Parameter 8 bytes

	Meaning	Notes
Data 5	Hour tens digit	0-9/A-F
Data 6	Hour ones digit	
Data 7	Minute tens digit	
Data 8	Minute ones digit	
Data 9	Second tens digit	
Data 10	Second ones digit	
Data 11	Frame tens digit	
Data 12	Frame ones digit	

Request/Preset TC USER BITS PRESET [7F0611]

**TC GENERATOR MODE RETURN**

This is a return command in response to a "TC GENERATOR MODE SELECT [7F0620]" command.

This returns the generator setting.

Command FF

Category Code 06

Sub Command A0

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	FREE RUN	FREE RUN timecode generator mode
0	1	FREE ONCE	FREE ONCE timecode generator mode
0	2	TIME OF DAY	TIME OF DAY timecode generator mode
0	3	JAM SYNC	JAM SYNC timecode generator mode
0	4	REGEN	REGEN timecode generator mode
0	5	REC RUN	REC RUN timecode generator mode
0	6	TC SYNC REC	TC SYNC REC timecode generator mode

Request/Preset TC GENERATOR MODE SELECT [7F0620]

**TC FRAME TYPE RETURN**

This is a return command in response to a "TC FRAME TYPE SELECT [7F0621]" command.

This returns the frame type setting.

Command FF

Category Code 06

Sub Command A1

Machine ID 0

Parameter 2 or 4 bytes

Data 5	Data 6	Data 7	Data 8	Meaning	Notes
2	3			23.976F	23.976F timecode frame type
2	4			24F	24F timecode frame type
2	5			25F	25F timecode frame type
2	9	D	F	29.97DF	29.97DF timecode frame type
2	9			29.97NDF	29.97NDF timecode frame type
3	0	D	F	30DF	30DF timecode frame type
3	0			30NDF	30NDF timecode frame type

Request/Preset TC FRAME TYPE SELECT [7F0621]

**TC OUTPUT MODE RETURN**

This is a return command in response to a "TC OUTPUT MODE SELECT [7F0630]" command.

This returns the frame type setting.

Command FF

Category Code 06

Sub Command B0

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Generator Out	Output Generator TC
0	1	Play Out	Output the take playback TC

Request/Preset TC OUTPUT MODE SELECT [7F0630]



**CLOCK MASTER RETURN**

This is a return command in response to a "CLOCK MASTER SELECT [7F0640]" command.

This returns the master clock setting.

Command FF

Category Code 06

Sub Command C0

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Internal	Internal master clock
0	1	WORD	Word master clock
0	2	VIDEO	Video master clock
0	3	SLOT1	Master clock slot 1
0	4	SLOT2	Master clock slot 2

Request/Preset CLOCK MASTER SELECT [7F0640]

**WORD THRU RETURN**

This is a return command in response to a "WORD THRU SELECT [7F0648]" command.

This returns the WORD/VIDEO SETUP setting.

Command FF

Category Code 06

Sub Command C8

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	WORD OUT/TERM ON	Word out/termination on
0	1	WORD OUT/TERM OFF	Word out/termination off
1	1	WORD THRU/TERM OFF	Word thru/termination off

Request/Preset WORD THRU SELECT [7F0648]

**RECORD FUNCTION RETURN**

This is a return command in response to a "RECORD FUNCTION SELECT [7F0800]" command.

This returns the record function settings for all channels.

Command FF

Category Code 08

Sub Command 80

Machine ID 0

Parameter 68 bytes

	Meaning	Notes
Data 5	Always "0100"	Start channel number From channel 1
Data 6		
Data 7		
Data 8		
Data 9	Channel 1 record function setting	0 = off/1 = on
.		
.		
.		
Data72	Channel 64 record function setting	

Request/Preset RECORD FUNCTION SELECT [7F0800]

**INPUT MONITOR FUNCTION RETURN**

This is a return command in response to an "INPUT MONITOR FUNCTION SELECT [7F0801]" command.

This returns the input monitoring function settings for all channels.

Command FF  
 Category Code 08  
 Sub Command 81  
 Machine ID 0  
 Parameter 68 bytes

	Meaning	Notes
Data 5	Always "0100"	Start channel number From channel 1
Data 6		
Data 7		
Data 8		
Data 9	Channel 1 monitoring function setting	0 = off/1 = on
.		
Data72	Channel 64 monitoring function setting	

Request/Preset INPUT MONITOR FUNCTION SELECT [7F0801]

**BIT LENGTH RETURN**

This is a return command in response to a "BIT LENGTH SELECT [7F0822]" command.

This returns the bit length setting.

Command FF  
 Category Code 08  
 Sub Command A2  
 Machine ID 0  
 Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
1	6	16bit	Create audio files with a 16-bit setting
2	4	24bit	Create audio files with a 24-bit setting

Request/Preset BIT LENGTH SELECT [7F0822]

**MAX FILE SIZE RETURN**

This is a return command in response to a "MAX FILE SIZE SELECT [7F0823]" command.

This returns the maximum file size setting.

Command FF  
 Category Code 08  
 Sub Command A3  
 Machine ID 0  
 Parameter 6 bytes

Data 5/6	Data 7	Data 8	Data 9	Data10	Meaning	Notes
00	4	0	0	6	640MB	Capacity (MB)
	2	4	1	0	1GB	
	4	8	2	0	2GB	
01	Minute tens digit	Minute ones digit	Minute thousands digit	Minute hundreds digit		Time (minutes): 240 minutes maximum Examples: "0100" is 1 minute 4002: 240 minutes

Request/Preset MAX FILE SIZE SELECT [7F0823]

**PAUSE MODE RETURN**

This is a return command in response to a "PAUSE MODE SELECT [7F0824]" command.

This returns the PAUSE mode setting.

Command FF

Category Code 08

Sub Command A4

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	SPLIT	Divide a file
0	1	NO SPLIT	Do not divide the file

Request/Preset PAUSE MODE SELECT [7F0824]

**TIME INTERVAL MARKER TIME RETURN**

This is a return command in response to a "TIME INTERVAL MARKER TIME PRESET [7F0832]" command.

This returns the TIME INTERVAL MARKER TIME setting.

Command FF

Category Code 08

Sub Command B2

Machine ID 0

Parameter 4 bytes

	Meaning	Notes
Data 5	Interval time tens digit	Interval time (minutes) Example: "2301" is an interval of 123 minutes (240 minutes maximum)
Data 6	Interval time ones digit	
Data 7	Interval time thousands digit	
Data 8	Interval time hundreds digit	

Request/Preset TIME INTERVAL MARKER PRESET [7F0832]

**AUDIO OVER MARKER RETURN**

This is a return command in response to an "AUDIO OVER MARKER SELECT [7F0841]" command.

This returns the AUTO MARK AUDIO OVER setting.

Command FF

Category Code 08

Sub Command C1

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Marker Off	AUDIO OVER MARKER OFF
0	1	Marker On	AUDIO OVER MARKER ON

Request/Preset AUDIO OVER MARKER SELECT [7F0841]

**TIME INTERVAL MARKER RETURN**

This is a return command in response to a "TIME INTERVAL MARKER SELECT [7F0842]" command.

This returns the AUTO MARK TIME INTERVAL setting.

Command FF  
 Category Code 08  
 Sub Command C2  
 Machine ID 0  
 Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Marker Off	TIME INTERVAL MARKER OFF
0	1	Marker On	TIME INTERVAL MARKER ON

Request/Preset TIME INTERVAL MARKER SELECT [7F0842]

**SYNC UNLOCK MARKER RETURN**

This is a return command in response to a "SYNC UNLOCK MARKER SELECT [7F0843]" command.

This returns the AUTO MARK SYNC UNLOCK setting.

Command FF  
 Category Code 08  
 Sub Command C3  
 Machine ID 0  
 Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Marker Off	SYNC UNLOCK MARKER OFF
0	1	Marker On	SYNC UNLOCK MARKER ON

Request/Preset SYNC UNLOCK MARKER SELECT [7F0843]

**REC FS RETURN**

This is a return command in response to a "REC FS SELECT [7F0850]" command.

This returns the REC FS setting.

Command FF  
 Category Code 08  
 Sub Command D0  
 Machine ID 0  
 Parameter 6 bytes

Data 5	Data 6	Data 7	Data 8	Data 9	Data 10	Meaning	Notes
4	4	0	0	0	0	44.1 kHz	
4	8	0	0	0	0	48 kHz	
8	8	0	0	0	0	88.2 kHz	
9	6	0	0	0	0	96 kHz	

Request/Preset REC FS SELECT [7F0850]

**USER WORD RETURN**

This is a return command in response to a "USER WORD SENSE [7F085A]" command.

The user word is returned in UTF-8 format.

Command FF  
 Category Code 08  
 Sub Command DA  
 Machine ID 0  
 Parameter 31 bytes

	Meaning	Notes
Data 5 – Data35	User word	UTF-8

Request/Preset USER WORD SENSE [7F085A]

**FILE NAME RETURN**

This is a return command in response to a "FILE NAME SELECT [7F0860]" command.

This returns the FILE NAME setting.

Command FF  
 Category Code 08  
 Sub Command E0  
 Machine ID 0  
 Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Date & Time	The date and time is used for the file name
0	1	Folder	The name of the current folder is used for the file name
1	1	User Word	The user word is used for the file name

Request/Preset FILE NAME SELECT [7F0860]

**MEDIA REMAIN RETURN**

This is a return command in response to a "MEDIA REMAIN SENSE [7F1001]" command.

This returns the remaining capacity of the specified media.

If the specified media is not loaded, "0MB" will be returned as the remaining capacity.

Command FF  
 Category Code 10  
 Sub Command 81  
 Machine ID 0  
 Parameter 10 bytes

	Meaning	Notes
Data 5	Device ID tens digit	Device ID: 00 = SSD/01 = USB
Data 6	Device ID ones digit	
Data 7	Remaining capacity tens digit (GB)	Remaining media capacity Example: 16000000 = 16 GB Example: 00001205 = 512 MB
Data 8	Remaining capacity ones digit (GB)	
Data 9	Remaining capacity thousands digit (GB)	
Data 10	Remaining capacity hundreds digit (GB)	
Data 11	Remaining capacity thousands digit (MB)	
Data 12	Remaining capacity ones digit (MB)	
Data 13	Remaining capacity thousands digit (MB)	
Data 14	Remaining capacity hundreds digit (MB)	

Request/Preset MEDIA REMAIN SENSE [7F1001]

**MEDIA FORMAT ACKNOWLEDGE**

This is a return command in response to a "MEDIA FORMAT [7F1044]" command.

This is returned at the start of execution and with the result.

Command FF  
 Category Code 10  
 Sub Command C4  
 Machine ID 0  
 Parameter 2 bytes

Data 7	Data 8	Meaning	Notes
0	0	Start	Execution started
1	1	End ( OK )	Execution completed successfully
1	2	End ( NG )	Execution was not possible or failed

Request/Preset MEDIA FORMAT [7F1044]

**AUX ASSIGN KEY RETURN**

This is a return command in response to an "AUX ASSIGN KEY SELECT [7F1110]" command.

This returns the AUX KEY ASSIGN setting.

Command FF  
 Category Code 11  
 Sub Command 90  
 Machine ID 0  
 Parameter 4 bytes

	Meaning	Notes
Data 5	01-06: AUX1-AUX6	AUX KEY
Data 6		
Data 7	00 : PLAY/PAUSE 01 : PAUSE 02 : REC 03 : FADER REC 04 : FADER START 05 : REW 06 : F.FWD 07 : TAKE SKIP- 08 : TAKE SKIP+ 09 : MARK SKIP- 0A : MARK SKIP+ 0B : TAKE/MARK SKIP- 0C : TAKE/MARK SKIP+ 0D : MARK	
Data 8		

Request/Presets AUX ASSIGN KEY SELECT [7F1110]

**AUX ASSIGN TALLY RETURN**

This is a return command in response to an "AUX ASSIGN TALLY SELECT [7F1111]" command.

This returns the AUX TALLY ASSIGN setting.

Command FF  
 Category Code 11  
 Sub Command 91  
 Machine ID 0  
 Parameter 4 bytes

	Meaning	Notes
Data 5	01-05: AUX1-AUX5	AUX TALLY
Data 6		
Data 7	00 : STOP 01 : PLAY 02 : PAUSE 03 : REC 04 : EOM 05 : ERROR 06 : EOM/ERROR	
Data 8		

Request/Presets AUX ASSIGN TALLY SELECT [7F1111]

**INPUT ROUTING RETURN**

This is a return command in response to an "INPUT ROUTING SELECT [7F1250]" command.

This returns the input settings for all channels

Command FF

Category Code 12

Sub Command D0

Machine ID 0

Parameter 260 bytes

	Meaning	Notes
Data 5	Always "0100"	Start channel number From channel 1
Data 6		
Data 7		
Data 8		
Data 9	Source channel number tens digit	Channel 1 information
Data10	Source channel number ones digit	
Data11	Source slot number	
Data12	Source channel number hundreds digit	
.		
.		
.		
Data261	Source channel number tens digit	Channel 64 information
Data262	Source channel number ones digit	
Data263	Source slot number	
Data264	Source channel number hundreds digit	

Request/Preset INPUT ROUTING SELECT [7F1250]



**OUTPUT ROUTING RETURN**

This is a return command in response to an "OUTPUT ROUTING SELECT [7F1251]" command.

This returns the output settings for all the channels of the designated slot.

Command FF  
 Category Code 12  
 Sub Command D1  
 Machine ID 0  
 Parameter 260 bytes

	Meaning	Notes
Data 5	Always "0"	Designated slot number: 0 = Slot 1/1 = Slot 2 Start channel number Slot 1: 0100 Slot 2: 0110
Data 6	Always "1"	
Data 7	Slot number	
Data 8	Always "0"	
Data 9	Source channel number tens digit	Channel 1 information
Data10	Source channel number ones digit	
Data11	Always "0"	
Data12	Source channel number hundreds digit	
.		
.		
.		
Data261	Source channel number tens digit	Channel 64 information
Data262	Source channel number ones digit	
Data263	Always "0"	
Data264	Source channel number hundreds digit	

Request/Preset OUTPUT ROUTING SELECT [7F1251]

**METER PEAK HOLD TIME RETURN**

This is a return command in response to a "METER PEAK HOLD TIME PRESET [7F1321]" command.

This returns the meter peak hold setting.

Command FF

Category Code 13

Sub Command A1

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	0	Hold Time 0s	No peak hold
0	1	Hold Time 1s	Hold for 1 seconds
0	2	Hold Time 2s	Hold for 2 seconds
0	3	Hold Time 3s	Hold for 3 seconds
0	4	Hold Time 4s	Hold for 4 seconds
0	5	Hold Time 5s	Hold for 5 seconds
0	6	Hold Time 6s	Hold for 6 seconds
0	7	Hold Time 7s	Hold for 7 seconds
0	8	Hold Time 8s	Hold for 8 seconds
0	9	Hold Time 9s	Hold for 9 seconds
1	0	Hold Time 10s	Hold for 10 seconds
F	E	Hold Time Inf.	Hold permanently

Request/Preset METER PEAK HOLD TIME SELECT [7F1321]

**DIGITAL REFERENCE LEVEL RETURN**

This is a return command in response to a "DIGITAL REFERENCE LEVEL PRESET [7F1420]" command.

This returns the digital reference level setting.

Command FF

Category Code 14

Sub Command A0

Machine ID 0

Parameter 2 bytes

Data 5	Data 6	Meaning	Notes
0	9	Reference Level - 9dB	-9dB digital reference level
1	4	Reference Level -14dB	-14dB digital reference level
1	6	Reference Level -16dB	-16dB digital reference level
1	8	Reference Level -18dB	-18dB digital reference level
2	0	Reference Level -20dB	-20dB digital reference level

Request/Presets DIGITAL REFERENCE LEVEL PRESET [7F1420]

**TAKE RENAME ACKNOWLEDGE**

This is a return command in response to a "TAKE RENAME [7F4200]" command.

This is returned at the start of execution and with the result.

Command FF

Category Code 42

Sub Command 80

Machine ID 0

Parameter 2 bytes

Data 7	Data 8	Meaning	Notes
0	0	Start	Execution started
1	1	End ( OK )	Execution completed successfully
1	2	End ( NG )	Execution was not possible or failed

Request/Preset TAKE RENAME [7F4200]

**TAKE ERASE ACKNOWLEDGE**

This is a return command in response to a "TAKE ERASE [7F4230]" command.

This is returned at the start of execution and with the result.

Command FF

Category Code 42

Sub Command B0

Machine ID 0

Parameter 2 bytes

Data 7	Data 8	Meaning	Notes
0	0	Start	Execution started
1	1	End ( OK )	Execution completed successfully
1	2	End ( NG )	Execution was not possible or failed

Request/Preset TAKE ERASE [7F4230]

**TAKE COPY ACKNOWLEDGE**

This is a return command in response to a "TAKE COPY [7F4252]" command.

This is returned at the start of execution and with the result.

Command FF

Category Code 42

Sub Command D2

Machine ID 0

Parameter 2 bytes

Data 7	Data 8	Meaning	Notes
0	0	Start	Execution started
1	1	End ( OK )	Execution completed successfully
1	2	End ( NG )	Execution was not possible or failed

Request/Preset TAKE COPY [7F4252]

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