TASCAM MP-800U/MP-800UDAB
OPTION BOARD TASCAM IF-E100
TELNET Protocol Specifications

Ver. 1.00

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TEAC Corporation

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1. Overview

The MP-800U/MP-800UDAB (“controlled device”) can be controlled from an external device (“external controller”), such as a computer, through an ETHERNET (TELNET) connection.

2. Specifications

2.1. IP Control (Ethernet)

Communication Interface

Communication system	Full duplex
Transmission Protocol	Telnet over TCP/IP
Port Number	23
Password	numbers only 10-digit maximum (default: 400)
Ethernet規格	100BASE-TX
Transfer speed	10 / 100 / 1000 Mbps
TCP port No.	9030
Maximum data length	600 Bytes (Start character to End character is included.
Ethernet standard	100BASE-TX
Cables	category 5e or faster.

2.2. Telnet

To communicate with the MP (controlled device) via protocol, you must connect via Telnet and then log in.

Required settings for Telnet connection

The following settings are necessary to connect to this unit by Telnet.

IP address	The IP address of the unit is shown in the IP Address screen. (See “IP address setting (IP Address)” on page 4.)
Port number	23
Password	400 (default) This can be changed on the Password screen. (See “Password setting” on page 4.)

Login

1. After connecting to this unit by Telnet with the above IP address and port number. Then send a carriage return (CR) and a linefeed (LF).
2. “Enter Password” will appear on the Telnet console. Send the above password with a carriage return (CR) and a linefeed (LF).
3. When login succeeds, “Login Successful” will appear on the Telnet console.

NOTE

- Multiple connections are not possible. If a Telnet connection has already been made, additional connections will not be possible.
- If an item of Network Set Is changed when there is a Telnet connection, the connection will be interrupted.

3. Command Format

3.1. 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	...	CR	LF

Commands start with an "ID" and end with a carriage return (CR) and a linefeed (LF), and are based on ASCII format.
Machine ID (ID) will be explained below.
Commands are expressed as two-byte ASCII.
For details on the data, refer to the detailed explanation for each command. For commands that use 0--9 and A--F as data values, uppercase characters 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	CR	LF
HEX	30h	31h	32h	0Dh	0Ah

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

The command “DIRECT TRACK (TAKE) SEARCH PRESET [23]” is transmitted to perform this action.
Data bytes are formed of two-byte ASCII units.
For the command “DIRECT TRACK SEARCH PRESET,” the track number is specified as follows.

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

Therefore, the transmitted command is as follows.

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

3.2. Machine ID

The Machine ID is fixed at [0]. A command with the machine ID other than [0] is ignored.

3.3. Command Sequence

In most cases, the controlled device does not send an ACK command in response to a transport control command or data preset command that is sent from an external controller.

The controlled device sends a return command in response to a data sense command that requests the controlled device to return the controlled device's preset data values.

If the controlled device switches from one state to another - from stop state to playback state, for example, or if an error occurs, the controlled device sends a command to notify the external controller about the state transition.

Examples of command sequences are shown below.

Make sure that commands are sent at a minimum of 100-millisecond intervals.

Example 1: Using a transport control of the controlled device (e.g. playback)

When entering the playback state after receiving the playback command, the controlled device sends the CHANGE STATUS command.

The controlled device does not send an ACK command in response to this command.

Command			Status of the controlled device
External controller		Controlled device	
			STOP
PLAY	->		
	<-	CHANGED STATUS	Sent when the controlled device enters the playback state

Example 2: Presetting data (e.g. pitch control data)

When receiving the RESUME PLAY SELECT command, the controlled device sets the pitch control data. The controlled device does not send an ACK command in response to this command.

Command			Status of the controlled device
External controller		Controlled device	
PLAY MODE SELECT (Single)	->		Sets the resume play mode to single

Example 3: Requesting currently set data (e.g. pitch control data)

When receiving the PLAY MODE SENSE (Sense) command, the controlled device sends the set play mode status.

Command			Status of the controlled device
External controller		Controlled device	
PLAY MODE SENSE (Sense)	->		
	<-	PLAY MODE RETURN	

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.

Track number 999 maximum

3.4. List of Commands

List of main commands

Control/Preset/Sense Command		Return Command		Adopted F/W Ver.
0F	INFORMATION REQUEST	8F	INFORMATION RETURN	
10	STOP			
12	PLAY			
14	READY			
16	SEARCH			
1A	TRACK SKIP			
20	AUTO CUE LEVEL PRESET	A0	AUTO CUE LEVEL RETURN	
23	DIRECT TRACK SEARCH PRESET			
25	PITCH DATA PRESET	A5	PITCH DATA RETURN	
2E	FADE IN/OUT TIME PRESET	AE	FADE IN/OUT TIME RETURN	
30	AUTO CUE SELECT	B0	AUTO CUE SELECT RETURN	
34	RESUME PLAY SELECT	B4	RESUME PLAY SELECT RETURN	
35	PITCH CONTROL SELECT	B5	PITCH CONTROL SELECT RETURN	
36	AUTO READY SELECT	B6	AUTO READY SELECT RETURN	
37	REPEAT SELECT	B7	REPEAT SELECT RETURN	
3A	INCR PLAY SELECT	BA	INCR PLAY SELECT RETURN	
3D	KEY CONTROL SELECT	BD	KEY CONTROL SELECT RETURN	
4A	CLEAR			
4C	REMOTE/LOCAL SELECT	CC	REMOTE/LOCAL SELECT RETURN	
4D	PLAY MODE SELECT			
4E	PLAY MODE SENSE	CE	PLAY MODE RETURN	
50	MECHA STATUS SENSE	D0	MECHA STATUS RETURN	
55	TRACK NO. SENSE	D5	TRACK NO. RETURN	
56	MEDIA STATUS SENSE	D6	MEDIA STATUS RETURN	
57	CURRENT TRACK INFORMATION SENSE	D7	CURRENT TRACK INFORMATION RETURN	
58	CURRENT TRACK TIME SENSE	D8	CURRENT TRACK TIME RETURN	
5D	TOTAL TRACK NO./TOTAL TIME SENSE	DD	TOTAL TRACK NO./TOTAL TIME RETURN	
		F0	ERROR SENSE REQUEST	
		F1	CAUTION SENSE REQUEST	
		F2	ILLEGAL STATUS	
		F4	POWER ON STATUS	
		F6	CHANGE STATUS	
78	ERROR SENSE	F8	ERROR SENSE RETURN	
79	CAUTION SENSE	F9	CAUTION SENSE RETURN	
7F	VENDOR COMMAND	FF	VENDOR COMMAND RETURN	

Caution: If no supported version is indicated in the "Adopted F/W Ver." column, ver. 1.00 or later are supported.

List of vendor commands

The list of vendor 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 24.

Control/Sense Command		Return Command		Adopted F/W Ver.
7F01	DEVICE SELECT	FF01	DEVICE SELECT RETURN	
7F074F	PLAY AREA SELECT	FF07CF	PLAY AREA SELECT RETURN	
7F7049	ENTER			
7F704A	BACK			
7F4C00	CURRENT FILE NAME SENSE	FF4C80	CURRENT FILE NAME RETURN	
7F4C01	BROWSE CURSOR SENSE	FF4C81	BROWSE CURSOR RETURN	
7F4C02	MOVE BROWSE CURSOR			
7F4C0A	ID3 TAG DATA SENSE	FF4C8A	ID3 TAG DATA RETURN	
7F4C0F	TOTAL FILE NUMBER SENSE	FF4C8F	TOTAL FILE NUMBER RTEURN	
7F4F00	TUNER FREQUENCY PRESET	FF4F80	TUNER FREQUENCY RETURN	

Caution: If no supported version is indicated in the "Adopted F/W Ver." column, ver. 1.00 or later are supported.

3.5. Command Details

INFORMATION REQUEST

INFORMATION REQUEST requests the controlled device to return information including the software version of the controlled device.

Command 0F
Data None

	Description	Remarks
Data 1	Version status	00: MAIN version
Data 2		01: SUB version

Return INFORMATION RETURN [8F]

STOP

STOP puts the controlled device into the stop state.
If the mode is FM or DAB, this command switches between frequency and preset modes.

Command 10
Data None
Return None

PLAY

Play puts the controlled device into playback mode.

Command 12
Data None
Return None

READY

READY puts the controlled device into playback standby mode.

Command 14
Data 2 bytes
Return None

Data 1	Data 2	Description	Remarks
0	1	Ready ON	Switches to playback standby mode.

·If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

SEARCH

When the source is USB or SD, SEARCH puts the controlled device into the search playback mode. The controlled device remains in the search playback mode until it receives a command such as STOP, PLAY, or READY.

When the source is FM, this command automatically searches for received frequencies in the higher or lower direction.

Command 16
Data 2 bytes
Return None

Data 1	Data 2	Description	Remarks
0	0	Search Forward (Normal)	(USB/SD) Search (playback) in the forward direction. (Normal speed) (FM) Search for received frequencies in the higher direction.
0	1	Search Reverse (Normal)	(USB/SD) Search (playback) in the backward direction. (Normal speed) (FM) Search for received frequencies in the lower direction.
1	0	Search Forward (High)	(USB/SD) Search (playback) in the forward direction. (High speed)
1	1	Search Reverse (High)	(USB/SD) Search (playback) in the backward direction. (High speed)

·If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

TRACK SKIP

SKIP allows the controlled device to skip a track.

If the mode is FM and a preset number is not displayed (Frequency mode), this command changes the received frequency.

If the mode is FM and a preset number is displayed (Preset mode), this command moves to the previous or next preset number.

Command 1A
Data 2 bytes
Return None

Data 1	Data 2	Description	Remarks
0	0	Track Skip Next	Skips to the next track
0	1	Track Skip Previous	If the current position is at the beginning of a track (or within one second of the beginning of a track), the controlled device skips to the beginning of the previous track. If the current position is not at the beginning of a track, the controlled device skips to the beginning of the current track.

·If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

AUTO CUE LEVEL PRESET

AUTO CUE LEVEL PRESET sets the auto cue level of the controlled device.

Only when this command is sent with request data ([FF]), the controlled device sends the AUTO CUE LEVEL RETURN command [A0].

The auto cue mode can be turned on or off using the AUTO CUE SELECT command [30].

Command 20
Data 2 bytes
Return AUTO CUE LEVEL RETURN [A0]

Data 1	Data 2	Description	Remarks
0	0	-24dB	Sets the auto-cue level to -24dB
0	1	-30dB	Sets the auto-cue level to -30dB
0	2	-36dB	Sets the auto-cue level to -36dB
0	3	-42dB	Sets the auto-cue level to -42dB
0	4	-48dB	Sets the auto-cue level to -48dB
0	5	-54dB	Sets the auto-cue level to -54dB
0	6	-60dB	Sets the auto-cue level to -60dB
0	7	-66dB	Sets the auto-cue level to -66dB
0	8	-72dB	Sets the auto-cue level to -72dB
F	F	Sense	Requests the controlled device to return the current auto-cue level setting

If the controlled device receives data other than the above data, it sends ILLEGAL [F2].

DIRECT TRACK SEARCH PRESET

DIRECT TRACK SEARCH PRESET performs a search for a track on the controlled device by specifying the track number.

If a track search is performed, the controlled device starts playback of the selected track.

When the source is FM or DAB, this performs selection of a preset station by specifying the preset number.

Command 23
Data 4 bytes
Return None

	Description	Remarks
Data 1	Tens digit of the track number Tens digit of the preset number (FM/DAB)	Track number Example) 2301: Track 123 Preset number Example) 1200: Preset 12
Data 2	Ones digit of the track number Ones digit of the preset number (FM/DAB)	
Data 3	Thousands digit of the track number Always 0 (FM/DAB)	
Data 4	Hundreds digit of the track number Always 0 (FM/DAB)	

If the track number specified does not exist in the media, it sends ILLEGAL [F2].

If the preset number specified is larger than 20, it sends ILLEGAL [F2].

PITCH DATA PRESET

PITCH DATA PRESET sets the pitch of playback of the controlled device. (%)

The setting range is ±16.0%.

Only when this command is sent with request data ([FF]), the controlled device sends the PITCH CONTROL DATA RETURN command [A5].

The pitch control mode can be turned on or off using the PITCH CONTROL SELECT command [35].

Command 25

Data 4 bytes or 2 bytes

Return Pitch Control Data Return [A5]

Data1	Data2	Data3	Data4	Description	Remarks
		0 1			Positive (+) value Negative (-) value
N2	N3		N1	Preset %	N1: Tens digit of the pitch control value N2: Ones digit of the pitch control value N3: Always 0 (First decimal place of the pitch control value) Example) 2011: -12.0%
F	F	…		Sense	Requests the controlled device to return the current pitch control setting

· If the specified data is out of range, the controlled device sends ILLEGAL [F2].

FADE IN/OUT TIME PRESET

Specifies the fade-in/out time used for the fade-in/out function of the controlled device.

A range of 0.5 to 10.0 seconds in increment of 0.5 seconds can be specified.

A return command is returned only if Sense [FF] is specified.

If Sense [FF] is specified, the data is four bytes including IN Time [00] and OUT Time [01].

([00FF]: Sense FADE IN Time, [01FF]: Sense FADE OUT Time)

Command 2E

Data 6 bytes or 4 bytes

Return FADE IN/OUT TIME RETURN [AE]

Data1	Data2	Data3	Data4	Data5	Data6	Description	Remarks
0	0 1					IN Time OUT Time	
		N1	N2	N3	N4	Preset Time	N1: Tens digit, N2: Ones digit, N3: Tenth digit (0 or 5), N4: Hundredth digit (Always 0)
		F	F	…		Sense	Requests that the preset content be returned.

If data outside the specified operating range is received, the controlled device will transmit ILLEGAL[F2]

AUTO CUE SELECT

AUTO CUE SELECT turns the Auto-cue mode of the controlled device on or off.

Only when this command is sent with request data ([FF]), the controlled device sends the AUTO-CUE SELECT RETURN command [B0].

The Auto-cue level can be set using the AUTO CUE LEVEL PRESET command [20].

Command 30
Data 2 bytes
Return AUTO CUE SELECT RETURN [B0]

Data1	Data2	Description	Remarks
0	0	Auto-cue mode OFF	Turns the Auto-cue mode off
0	1	Auto-cue mode ON	Turns the Auto-cue mode on
F	F	Sense	Requests the controlled device to return the Auto-cue mode status

If the specified data is out of range, the controlled device sends ILLEGAL [F2].

RESUME PLAY SELECT

RESUME PLAY SELECT turns the resume play mode of the controlled device on or off.

Only when this command is sent with request data [FF], the controlled device sends the REPEAT SELECT RETURN command [B4].

Command 34
Data 2 bytes
Return RESUME PLAY SELECT RETURN [B4]

Data 1	Data 2	Description	Remarks
0	0	Resume play OFF	
0	1	Resume play ON	
F	F	Sense	Requests the controlled device to return the current resume play mode setting

·If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

PITCH CONTROL SELECT

PITCH CONTROL SELECT turns the pitch control mode of the controlled device on or off.

Only when this command is sent with request data [FF], the controlled device sends the PITCH CONTROL SELECT RETURN command [B5].

The pitch control data can be set using the PITCH CONTROL DATA PRESET command [25].

Command 35
Data 2 bytes
Return PITCH CONTROL SELECT RETURN [B5]

Data 1	Data 2	Description	Remarks
0	0	Pitch control OFF	
0	1	Pitch control ON	
F	F	Sense	Requests the controlled device to return the current pitch control mode setting

If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

AUTO READY SELECT

AUTO READY SELECT turns the auto ready mode of the controlled device on or off.

Only when this command is sent with request data [FF], the controlled device sends the AUTO READY SELECT RETURN command [B6].

Command 36
Data 2 bytes
Return AUTO READY SELECT RETURN [B6]

Data 1	Data 2	Description	Remarks
0	0	Auto-ready OFF	
0	1	Auto-ready ON	
F	F	Sense	Requests the controlled device to return the current auto-ready mode setting

If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

REPEAT SELECT

REPEAT SELECT turns the repeat mode of the controlled device on or off.

Only when this command is sent with request data [FF], the controlled device sends the REPEAT SELECT RETURN command [B7].

Command 37
Data 2 bytes
Return REPEAT SELECT RETURN [B7]

Data 1	Data 2	Description	Remarks
0	0	Repeat OFF	
0	1	Repeat ON	
F	F	Sense	Requests the controlled device to return the current repeat mode setting

·If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

INCR PLAY SELECT

INCR PLAY SELECT turns the incremental playback mode of the controlled device on or off.

Only when this command is sent with request data [FF], the controlled device sends the INCR PLAY SELECT RETURN command [BA].

Command 3A
Data 2 bytes
Return INCR PLAY SELECT RETURN [BA]

Data 1	Data 2	Description	Remarks
0	0	Incremental playback OFF	
0	1	Incremental playback ON	
F	F	Sense	Requests the controlled device to return the current incremental playback mode setting

·If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

KEY CONTROL SELECT

KEY CONTROL SELECT turns the key control mode of the controlled device on or off.

Only when this command is sent with request data [FF], the controlled device sends the KEY CONTROL SELECT RETURN command [BD].

Command 3D
Data 2 bytes
Return KEY CONTROL SELECT RETURN [BD]

Data 1	Data 2	Description	Remarks
~~0~~	~~0~~	~~Key control mode OFF~~	
~~0~~	~~1~~	~~Key control mode ON~~	
1	0	Key Original mode OFF	
1	1	Key Original mode ON	
F	F	Sense	Requests the controlled device to return the current key control mode setting

If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

CLEAR

CLEAR replies no or cancel when a message is displayed. (Same as CLEAR button)

Command: 4A
Data: None
Return: None

REMOTE/LOCAL SELECT

REMOTE/LOCAL SELECT enables or disables key operation on the controlled device.

Only when this command is sent with request data [FF], the controlled device sends the REMOTE/LOCAL RETURN command [CC].

Command 4C
Data 2 bytes
Return REMOTE/LOCAL SELECT RETURN [CC]

Data 1	Data 2	Description	Remarks
0	0	~~Only remote~~ Front Key disable	Enables only remote operation through an ETHERNET, Bluetooth and the IR remote control. Key operation on the controlled device is disabled. Keys on the front panel: Disable Ethernet: Enable Bluetooth: Enable IR remote control: Enable
0	1	~~Remote and Front key~~ All enable	Enables remote operation and key operation on the controlled device All are enabled.
1	0	~~Serial control only~~ Network and Bluetooth Only	Enables only remote operation through an ETHERNET and Bluetooth. Key operation on the controlled device and remote operation through the IR remote control are disabled. Keys on the front panel: Disable Ethernet: Enable Bluetooth: Enable IR remote control: Disable

REMOTE/LOCAL SELECT Continued

Data 1	Data 2	Description	Remarks
1	1	IR remote disable	Enables remote operation through ETHERNET, bluetooth and key operation on the controlled device. Remote operation through the IR remote control is disabled. Keys on the front panel: Enable Ethernet: Enable Bluetooth: Enable IR remote control: Disable
2	0	Front key and Bluetooth disable	Enables only remote operation through an ETHERNET and the IR remote control. Key operation on the controlled device and remote operation through a Bluetooth is disabled. Keys on the front panel: Disable Ethernet: Enable Bluetooth: Disable IR remote control: Enable
2	1	Bluetooth Disable	Enables remote operation through an ETHERNET, IR remote control and key operation on the controlled device. Remote operation through a Bluetooth is disabled. Keys on the front panel: Enable Ethernet: Enable Bluetooth: Disable IR remote control: Enable
3	0	Network only	Enables only remote operation through an ETHERNET. Key operation on the controlled device, remote operation through a Bluetooth and the IR remote control are disabled. Keys on the front panel: Disable Ethernet: Enable Bluetooth: Disable IR remote control: Disable
3	1	IR Remote and Bluetooth disable	Enables remote operation through ETHERNET and key operation on the controlled device. Remote operation through a Bluetooth and the IR remote control is disabled. Keys on the front panel: Enable Ethernet: Enable Bluetooth: Disable IR remote control: Disable
F	F	Sense	Requests the controlled device to return the current remote/local mode setting

·If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

PLAY MODE SELECT

PLAY MODE SELECT sets the playback mode of the controlled device.

The playback mode setting can be checked using the PLAY MODE SENSE command [4E].

Command 4D
Data 2 bytes
Return None

Data 1	Data 2	Description	Remarks
0	0	Continuous	Continuous playback
0	1	Single	Single playback
0	6	Random	Random playback

PLAY MODE SENSE

PLAY MODE SENSE requests the controlled device to return the current playback mode setting of the controlled device.

Command 4E
Data None
Return PLAY MODE RETURN [CE]

MECHA STATUS SENSE

MECHA STATUS SENSE requests the controlled device to return the status of the specified mechanism of the controlled device.

Command 50
Data None
Return MECHA STATUS RETURN [D0]

TRACK No. SENSE

TRACK No. SENSE requests the controlled device to return the current track number or the current preset number.

Command 55
Data None
Return TRACK No. RETURN [D5]

MEDIA STATUS SENSE

MEDIA STATUS SENSE requests the controlled device to return information about the presence or absence and the type of media in the controlled device.

Command 56
Data None
Return MEDIA STATUS RETURN [D6]

CURRENT TRACK INFORMATION SENSE

CURRENT TRACK INFORMAITON SENSE requests the controlled device to return information about the current track or the current preset and frequency of the tuner.

Command 57
Data None
Return CURRENT TRACK INFORMATION RETURN [D7]

CURRENT TRACK TIME SENSE

CURRENT TRACK TIME SENSE requests the controlled device to return the selected time information about the current track or the whole media, when in a playback or a ready state.=

Command 58
Data 2 bytes
Return CURRENT TRACK TIME RETURN [D8]

Data 1	Data 2	Description	Remarks
0	0	Track elapsed time	
0	1	Track remaining time	

·If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

TOTAL TRACK No./TOTAL TIME SENSE

TOTAL TRACK No./TOTAL TIME SENSE requests the controlled device to return the total number of tracks on the media and the total running time of the media in the controlled device.

Command 5D
Data None
Return TOTAL TRACK No./TOTAL TIME RETURN [DD]

ERROR SENSE

ERROR SENSE requests the controlled device to return information about an error that occurred on the controlled device. Be sure to determine the error by using this command if the ERROR SENSE REQUEST command [F0] is issued from the controlled device.

Command: 78
Data: None
Return: ERROR SENSE RETURN [F8]

CAUTION SNESE

CAUTION SENSE requests the controlled device to return information about a caution that is shown on the controlled device. Be sure to check the caution by using this command if the CAUTION SENSE REQUEST command [F1] is issued from the controlled device.

Command: 79
Data: None
Return: CAUTION SENSE RETURN [F9]

VENDOR COMMAND

This command controls a function unique to this unit. For details, see **"Detailed information about Vendor Commands"** on page 24.

Command: 7F
Return: VENDOR COMMAND RETURN [FF]

INFORMATION RETURN

INFORMATION RETURN is sent in response to the INFORMATION REQUEST command [0F] to show the software version.

Command 8F
Data 6 bytes
Request command INFORMATION REQUEST [0F]

	Description	Remarks
Data 1	Information Status	00: Main version 01: Sub version
Data 2		
Data 3	Tens digit of the software version	Example) 0123: Version 01.23
Data 4	Ones digit of the software version	
Data 5	First decimal place of the software version	
Data 6	Second decimal place of the software version	

AUTO CUE LEVEL RETURN

AUTO CUE LEVEL RETURN is sent in response to the AUTO CUE LEVEL PRESET command [20] to show the current Auto cue level setting.

Command A0
Data 2 bytes
Request command AUTO CUE LEVEL PRESET [20]

Data 1	Data 2	Description	Remarks
0	0	-24dB	Auto cue level setting is -24 dB.
0	1	-30dB	Auto cue level setting is -30 dB.
0	2	-36dB	Auto cue level setting is -36 dB.
0	3	-42dB	Auto cue level setting is -42 dB.
0	4	-48dB	Auto cue level setting is -48 dB.
0	5	-54dB	Auto cue level setting is -54 dB.
0	6	-60dB	Auto cue level setting is -60 dB.
0	7	-66dB	Auto cue level setting is -66 dB.
0	8	-72dB	Auto cue level setting is -72 dB.

PITCH DATA RETURN

PITCH DATA RETURN is sent in response to the PITCH DATA PRESET command [25] to show the current pitch control setting.

Command A5
Data 4 bytes
Request command PITCH DATA PRESET [25]

Data 1	Data 2	Data 3	Data 4	Description	Remarks
N2	N3	0 1	N1	Preset %	Positive (+) value Negative (-) value N1: Tens digit of the pitch control value N2: Ones digit of the pitch control value N3: Always 0 (First decimal place of the pitch control value) Example) 2011: -12% From -16.0% (6011) to +16.0% (6001)

FADE IN/OUT TIME RETURN

This is the return command in response to the command "FADE IN/OUT TIME PRESET [2E]."
It returns the currently specified fade-in/out time.

Command AE
Machine ID 0
Data 4 bytes
Request command FADE IN/OUT TIME PRESET [2E]

	Description	Remarks
Data 1	Fade mode	00: FADE IN time 01: FADE OUT time
Data 2		
Data 3	Tens digit of the selected fade in time or fade out time	Example) 000550 Fade In 5.5 sec.
Data 4	Ones digit of the selected fade in time or fade out time	
Data 5	Tenths digit of the selected fade in time or fade out time	
Data 6	Hundredths digit of the selected fade in time or fade out time	

AUTO CUE SELECT RETURN

AUTO CUE SELECT RETURN is sent in response to the AUTO CUE SELECT command [30] to show the current Auto cue mode setting.

Command B0
Data 2 bytes
Request command AUTO CUE SELECT [30]

Data 1	Data 2	Description	Remarks
0	0	Auto cue mode OFF	
0	1	Auto cue mode ON	

RESUME PLAY SELECT RETURN

RESUME PLAY SELECT RETURN is sent in response to the RESUME PLAY SELECT command [34] to show the current resume play mode setting.

Command B4
Data 2 bytes
Request command RESUME PLAY SELECT [34]

Data 1	Data 2	Description	Remarks
0	0	Resume play OFF	
0	1	Resume play ON	

PITCH CONTROL SELECT RETURN

PITCH CONTROL SELECT RETURN is sent in response to the PITCH CONTROL SELECT command [35] to show the current pitch control mode setting.

Command B5
Data 2 bytes
Request command PITCH CONTROL SELECT [35]

Data 1	Data 2	Description	Remarks
0	0	Pitch control OFF	
0	1	Pitch control ON	

AUTO READY SELECT RETURN

AUTO READY SELECT RETURN is sent in response to the AUTO READY SELECT command [36] to show the current auto-ready mode setting.

Command B6
Data 2 bytes
Request command AUTO READY SELECT [36]

Data 1	Data 2	Description	Remarks
0	0	Auto-ready OFF	
0	1	Auto-ready ON	

REPEAT SELECT RETURN

REPEAT SELECT RETURN is sent in response to the REPEAT SELECT command [37] to show the current repeat setting.

Command B7
Data 2 bytes
Request command REPEAT SELECT [37]

Data 1	Data 2	Description	Remarks
0	0	Repeat OFF	
0	1	Repeat ON	

INCR PLAY SELECT RETURN

INCR PLAY SELECT RETURN is sent in response to the INCR PLAY SELECT command [3A] to show the current incremental playback setting.

Command BA
Data 2 bytes
Request command INCR PLAY SELECT [3A]

Data 1	Data 2	Description	Remarks
0	0	INCR playback OFF	
0	1	INCR playback ON	

KEY CONTROL SELECT RETURN

KEY CONTROL SELECT RETURN is sent in response to the KEY CONTROL SELECT command [3D] to show the current key control mode setting.

Command BD
Data 2 bytes
Request command KEY CONTROL SELECT [3D]

Data 1	Data 2	Description	Remarks
1	0	Key original mode OFF	
1	1	Key original mode ON	

~~**FADE IN/OUT SELECT RETURN**~~

~~FADE IN/OUT SELECT RETURN is sent in response to the FADE IN/OUT SELECT command [3E] to show the current fade-in and fade-out mode settings.~~

~~Command BE~~
~~Data 2 bytes~~
~~Request command FADE IN/OUT SELECT [3E]~~

~~Data 1~~	~~Data 2~~	~~Description~~	~~Remarks~~
~~0~~	~~0~~	~~Fade-in OFF/Fade-out OFF~~	
~~0~~	~~1~~	~~Fade-in ON/Fade-out OFF~~	
~~1~~	~~0~~	~~Fade-in OFF/Fade-out ON~~	
~~1~~	~~1~~	~~Fade-in ON/Fade-out ON~~	

REMOTE/LOCAL SELECT RETURN

REMOTE/LOCAL SELECT RETURN is sent in response to the REMOTE/LOCAL SELECT command [4C] to show the current remote/local mode setting.

Command CC
Data 2 bytes
Request command REMOTE/LOCAL SELECT [4C]

Data 1	Data 2	Description	Remarks
0	0	Front Key disable	Enables only remote operation through an ETHERNET, Bluetooth and the IR remote control. Key operation on the controlled device is disabled. Keys on the front panel: Disable Ethernet: Enable Bluetooth: Enable IR remote control: Enable
0	1	All enable	Enables remote operation and key operation on the controlled device All are enabled.
1	0	Network and Bluetooth Only	Enables only remote operation through an ETHERNET and Bluetooth. Key operation on the controlled device and remote operation through the IR remote control are disabled. Keys on the front panel: Disable Ethernet: Enable Bluetooth: Enable IR remote control: Disable
1	1	IR remote disable	Enables remote operation through ETHERNET, bluetooth and key operation on the controlled device. Remote operation through the IR remote control is disabled. Keys on the front panel: Enable Ethernet: Enable Bluetooth: Enable IR remote control: Disable
2	0	Front key and Bluetooth disable	Enables only remote operation through an ETHERNET and the IR remote control. Key operation on the controlled device and remote operation through a Bluetooth is disabled. Keys on the front panel: Disable Ethernet: Enable Bluetooth: Disable IR remote control: Enable
2	1	Bluetooth Disable	Enables remote operation through an ETHERNET, IR remote control and key operation on the controlled device. Remote operation through a Bluetooth is disabled. Keys on the front panel: Enable Ethernet: Enable Bluetooth: Disable IR remote control: Enable

REMOTE/LOCAL SELECT Continued

Data 1	Data 2	Description	Remarks
3	0	Network only	Enables only remote operation through an ETHERNET. Key operation on the controlled device and remote operation through a Bluetooth and the IR remote control are disabled. Keys on the front panel: Disable Ethernet: Enable Bluetooth: Disable IR remote control: Disable
3	1	IR Remote and Bluetooth disable	Enables remote operation through ETHERNET and key operation on the controlled device. Remote operation through a Bluetooth and the IR remote control is disabled. Keys on the front panel: Enable Ethernet: Enable Bluetooth: Disable IR remote control: Disable

PLAY MODE RETURN

PLAY MODE RETURN is sent in response to the PLAY MODE SENSE command [4E] to show the current playback mode setting.

Command CE
Data 2 bytes
Request command PLAY MODE SENSE [4E]

Data 1	Data 2	Description	Remarks
0	0	Continuous playback	
0	1	Single playback	
0	6	Random playback	

MECHA STATUS RETURN

MECHA STATUS RETURN is sent in response to the MECHA STATUS SENSE command [50] to show the current status of the specified mechanism of the controlled device.

Command D0
Data 2 bytes
Request command MECHA STATUS SENSE [50]

Data 1	Data 2	Description	Remarks
0	0	No Media	No Media (USB or SD) No Connection (BT or AUDIO STREAM)
0	1	Preparing for disc ejection	There is no recognizable media Connecting (BT)
1	0	Stop	In stop state (USB or SD)
1	1	Play	In playback state (USB or SD) Connected (BT or AUDIO STREAM)
1	2	Ready	In ready state (USB or SD)
2	8	Searching forward	In search forward state (USB or SD)
2	9	Searching backward	In search backward state (USB or SD)
F	F	Other	Some other status (USB or SD) No Device or Need AK-BT1 (BT)

TRACK No. RETURN

TRACK No. RETURN is sent in response to the TRACK No. SENSE command [55] to show the current track number or the current preset number.

Command D5
Data 4 bytes
Request command TRACK No. SENSE [55]

	Description	Remarks
Data 1	Tens digit of the track number Tens digit of the preset number (FM/DAB)	0000: When being stopped and the track is not being cued up and so on. (USB, SD) When not in the preset mode (DAB/FM) When the source is Bluetooth or Audio stream 0001-0999: Track number (USB, SD) / Preset Number (FM, DAB)
Data 2	Ones digit of the track number Ones digit of the preset number (FM/DAB)	
Data 3	Thousands digit of the track number Always 0 (FM/DAB)	
Data 4	Hundreds digit of the track number Always 0 (FM/DAB)	

If the source is FM or DAB and in frequency mode, it sends ILLEGAL [F2].

MEDIA STATUS RETURN

MEDIA STATUS RETURN is sent in response to the MEDIA STATUS SENSE command [56] to show the presence or absence of a media and the type of the media.

Command D6
Data 4 bytes
Request command MEDIA STATUS SENSE [56]

Data 1	Media status	00: No media 01: Media loaded
Data 2		
Data 3	Media type	00: SD or USB
Data 4		

CURRENT TRACK INFORMATION RETURN

CURRENT TRACK INFORMATION RETURN is sent in response to the CURRENT TRACK INFORMATION SENSE command [57] to show information about current track when the source is USB or SD or information about the current preset and frequency when the source is FM or DAB.

Command D7
Data 12 bytes
Request command CURRENT TRACK INFORMATION SENSE [57]

	Description	**Remarks**
Data 1	Tens digit of the track number Tens digit of the preset number (FM/DAB)	
Data 2	Ones digit of the track number Ones digit of the preset number (FM/DAB)	
Data 3	Thousands digit of the track number Thousands digit of the preset number, always 0 (FM/DAB)	
Data 4	Hundreds digit of the track number Hundreds digit of the preset number, always 0 (FM/DAB)	
Data 5	Tens digit of the minutes Hundreds digit of the frequency (MHz) (FM) The 1st character of the DAB channel number (DAB)	
Data 6	Ones digit of the minutes Tens digit of the frequency (MHz) (FM) The 2nd character of the DAB channel number (DAB)	
Data 7	Thousands digit of the minutes Ones digit of the frequency (MHz) (FM) The 3rd character of the DAB channel number (DAB)	
Data 8	Hundreds digit of the minutes Tenths digit of the frequency (MHz) (FM) Tens digit of the service number (DAB)	
Data 9	Tens digit of the seconds Hundredths digit (MHz) (FM) Ones digit of the service number (DAB)	
Data 10	Ones digit of the seconds Reserved. Always 0 (FM/DAB)	
Data 11	(Tens digit of the frames)	Frames are not supported. Data 11 and 12 are always 0.
Data 12	(Ones digit of the frames)	

CURRENT TRACK TIME RETURN

CURRENT TRACK TIME RETURN is sent in response to the CURRENT TRACK TIME SENSE command [58] to show the selected time information about the current track.

Command D8
Data 10 bytes
Request command CURRENT TRACK TIME SENSE [58]

		Description	Remarks
(Data 1, Data 2)	00	Elapsed time	
	01	Track remaining time	
Data 3	--	Tens digit of the minutes	
Data 4	--	Ones digit of the minutes	
Data 5	--	Thousands digit of the minutes	
Data 6	--	Hundreds digit of the minutes	
Data 7	--	Tens digit of the seconds	
Data 8	--	Ones digit of the seconds	
Data 9	0	(Tens digit of the frame)	Frames are not supported. Data 9 and 10 are always 0.
Data10	0	(Ones digit of the frame)	

TOTAL TRACK No./TOTAL TIME RETURN

TOTAL TRACK No./TOTAL TIME RETURN is sent in response to the TOTAL TRACK No./TOTAL TIME SENSE command [5D] to show the total number of tracks on a media and the total running time of the media in the controlled device.

Command DD
Data 12 bytes
Request command TOTAL TRACK No./TOTAL TIME SENSE [5D]

	Description	Remarks
Data 1	Tens digit of the total number of tracks	
Data 2	Ones digit of the total number of tracks	
Data 3	Thousands digit of the total number of tracks	
Data 4	Hundreds digit of the total number of tracks	
Data 5	Tens digit of the minutes	Data 5 – 12 are always 0 because MP-800U and MP-800UDAB don't support total time.
Data 6	Ones digit of the minutes	
Data 7	Thousands digit of the minutes	
Data 8	Hundreds digit of the minutes	
Data 9	Tens digit of the seconds	
Data10	Ones digit of the seconds	
Data11	(Tens digit of the total number of frames of all tracks)	Frames are not supported. Data 11 – 12 are always 0.
Data12	(Ones digit of the total number of frames of all tracks)	

ERROR SENSE REQUEST

ERROR SENSE REQUEST is sent from the controlled device to the external controller to show that the controlled device is in an error state. If the command is sent, the external controller issues the ERROR SENSE command [78]. Be sure to determine the error by using the ERROR SENSE command.

Command	F0
Data	None
Request command	None

CAUTION SENSE REQUEST

CAUTION SENSE REQUEST is sent from the controlled device to the external controller to show that the controlled device is in a caution state. If the command is sent, the external controller issues the CAUTION SENSE command [79]. Be sure to check the caution by using the CAUTION SENSE command.

Command	F1
Data	None
Request command	None

ILLEGAL STATUS

ILLEGAL STATUS is sent from the controlled device to the external controller to show that an invalid command or data has been sent to the controlled device. If the command is sent, send a command or data again, making sure that it is a valid command or data.

Command	F2
Data	None
Request command	None

CHANGE STATUS

CHANGE STATUS is sent from the controlled device to the external controller to show that the controlled device has switched from one state to another.

Command	F6
Data	2 bytes
Request command	None

Data 1	Data 2	Description	Remarks
0	0	Mechanism status change	The status of the specified mechanism has been changed.
0	3	Track, Tuner Preset number, Tuner frequency, DAB station and EOM status changes	The controlled device has moved from one track to another or the EOM status has been changed. (USB/SD) It has moved from one frequency, preset number or DAB station to another. (FM/DAB)

ERROR SENSE RETURN

ERROR SENSE RETURN is sent in response to the ERROR SENSE command [78].

Command F8
Data 4 bytes
Request command ERROR SENSE [78]

Data 1	N2	ERROR CODE（N1-N2N3）
Data 2	N3	0-00 No Error
Data 3	0	1-01 Dubbing Error (error related to recording)
Date 4	N1	1-02 Device Error (error related to device)
		1-FF Other Error (An error other than those above occurred. Check the unit.)

CAUTION SENSE RETURN

CAUTION SENSE RETURN is sent in response to the CAUTION SENSE command [79].

Command F9
Data 4 bytes
Request command CAUTION SENSE [79]

Data 1	N2	CAUTION CODE（N1-N2N3）
Data 2	N3	0-00 No Caution
Data 3	0	1-02 Media Error (error related to media)
Data 4	N1	1-06 Media Full (media has no remaining capacity)
		1-0C Write Protected (media is write-protected)
		1-0D Not Execute (function cannot be executed in this state)
		1-13 Can't Select (selecting is not possible in this state)
		1-16 Name Full (name setting character upper limit has been reached)
		1-1E Decode Error (error related to playback)
		1-1F Media Not Match (media is not suitable)
		1-FF Other Caution (A caution other than those above occurred. Check the unit.)

VENDOR COMMAND RETURN

This is the returned command in response to the command [7F].
See **“Detailed Information about Vendor Commands”** below.

Command FF

Detailed information about Vendor Commands

Vendor commands have the following format.

Serial RS-232C

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8	Byte 9	…	Byte n
LF	ID	Command		Data 1	Data 2	Data 3	Data 4	Data 5	…	CR
LF	‘0’	‘7F’ or ‘FF’		Category Code		Sub Command		Parameter	…	CR

ETHERNET (TELNET)

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: The category code (2-byte ASCII) is used for classifying vendor commands according to function.
Sub Command: This is a unique sub-command code (2-byte ASCII) within the category.
DEVICE SELECT (01), DIVIDE(02) and DELETE（03）is the only category that has no sub command.
DEVICE SELECT (01) is Data 3 and higher are parameters.
Parameter: This is a parameter added to the command code (ASCII, length differs for each sub command.)

Below is the list of category codes.

Category Code	Category classification	Description
01	DEVICE SELECT	Selects the device to be used (SD, USB)
07	Playback	Setting related to playback

DEVICE SELECT

DEVICE SELECT changes the device to be used on the controlled device.

Command 7F
Category Code 01
Parameter: 2 bytes
Return DEVICE SELECT RETURN [FF01]

Data 5	Data 6	Function	Remarks
0	0	SD	Sets the device to SD
1	0	USB	Sets the device to USB
2	0	Bluetooth	Sets the device to Bluetooth
3	0	FM	Sets the device to FM (MP-800U)
		DAB	Sets the device to DAB (MP-800UDAB)
3	1	N/A	Not supported (MP-800U)
		FM	Sets the device to FM (MP-800UDAB)
5	0	AUDIO STREAM	Sets the device to AUDIO STREAM
F	F	Sense	Requests the controlled device to return the current device.

PLAY AREA SELECT

PLAY AREA SELECT sets the playback area of the controlled device. This command is not supported when the source is not USB nor SD.

Command 7F
Category Code 07
Subcommand 4F
Parameter: 2 bytes
Return PLAY AREA SELECT RETURN [FF07CF]

Data 7	Data 8	Function	Remarks
0	0	All	
0	1	Folder, not skip mode	
0	F	Folder, skip mode	
F	F	Sense	

If the source is not USB nor SD, it sends ILLEGAL [F2].

ENTER

ENTER works as same as pressing the main unit MULTI JOG dial or remote control ENTER button.
When a Menu Screen is open, ENTER confirms selections and settings.
When the play area is folder and selecting a track/folder (folder icon is blinking), ENTER starts playback if a track is selected or moves down one level if a folder is selected.
When a message is displayed, ENTER replies Yes.

Command 7F
Category Code 70
Subcommand 49
Parameter: 2 bytes
Return None

Data 7	Data 8	Function	Remarks
0	0	(Reserved)	Reserved for ENTER key - Release
0	1	ENTER Key - PUSH	

BACK

BACK works as same as pressing the main unit BACK [PAIRING] button.
When the Menu screen is open, BACK returns to the Home Screen. When a Menu setting screen is open, BACK goes up one menu level.
When the current source is USB or SD and the play area is folder (the folder icon shown), this move up one folder level.
When the current source is BLUETOOTH, press and hold to activate Bluetooth pairing mode. When a Bluetooth connection is active (Connected shown), press to disconnect forcefully.

Command 7F
Category Code 70
Subcommand 4A
Parameter: 2 bytes
Return None

Data 7	Data 8	Function	Remarks
0	0	(Reserved)	Reserved for ENTER key - Release
0	1	BACK key - Push	
2	0	BACK key – Push and hold	

CURRENT FILE NAME SENSE

Requests to return the current file name when the source is USB or SD.

Command 7F
Category Code 4C
Sub Command 00
Parameter 4 bytes
Return CURRENT FILE NAME RETURN [FF4C80]

If the current file is not specified (e.g. if there is no media), it sends ILLEGAL (F2).

BROWSE CURSOR SENSE

Requests to return the file or folder name using BROWSE cursor when the source is USB or SD.

Command 7F
Category Code 4C
Sub Command 01
Parameter 2 bytes
Return BROWSE CURSOR RETURN [FF4C81]

Data 5	Data 6	Function	Remarks
0	0	CURRENT	Show the name of the file/folder currently under cursor
0	6	PLAYING	Show the name of the file/folder currently played back

If the current file is not specified (e.g. if there is no media), it sends ILLEGAL (F2).

MOVE BROWSE CURSOR

Moves the BROWSE cursor when the source is USB or SD.

Command 7F
Category Code 4C
Sub Command 02
Parameter 2 bytes
Return None

Data 5	Data 6	Function	Remarks
0	1	UP	To move the BROWSE cursor one folder above the current one.
0	2	ENTER	The name of the file/folder currently played back
0	3	PREV	To move the BROWSE cursor to the next file/folder.
0	4	NEXT	To move the BROWSE cursor to the previous file/folder.
0	5	ROOT	To move the BROWSE cursor to the root folder.

If the current file is not specified (e.g. if there is no media), it sends ILLEGAL (F2).

ID3 TAG DATA SENSE

Requests to return the name of the specified folder in the current device of the controlled device.
Only the folder directly under the root folder are available.

Command 7F
Category Code 4C
Sub Command 0A
Parameter 2 bytes
Return ID3 TAG DATA RETURN [FF4C8A]

Data 5	Data 6	Function	Remarks
0	0	TITLE	To move the BROWSE cursor one folder above the current one.
0	1	ARTIST	The name of the file/folder currently played back
0	2	ALBUM	To move the BROWSE cursor to the next file/folder.
0	3	FOLDER	To move the BROWSE cursor to the previous file/folder.

If the current file is not specified (e.g. if there is no media), it sends ILLEGAL (F2).

TOTAL FILE NUMBER SENSE

Requests to return the total number of files on the current media of the controlled device when the current source is USB or SD and the play area is "All".
Requests to return the total number of files in the current folder on the current media of the controlled device when the current source is USB or SD and the play area is folder

Command 7F
Category Code 4C
Sub Command 0F
Parameter None
Return TOTAL FILE NUMBER RTEURN [FF4C8F]

If the current file is not specified (e.g. if there is no media), it sends ILLEGAL (F2).

TUNER FREQUENCY PRESET

When the source is FM, this performs tune a input frequency.

When the source is DAB, this performs tune a service by inputting the DAB CH and service ID.

Command 7F
Category Code 4F
Sub Command 00
Parameter 6 bytes
Return TUNER FREQUENCY RETURN [FF4F80]

	Description	Remarks
Data 5	Hundreds digit of the frequency (MHz) (FM) The 1st character of the DAB channel number (DAB)	Frequency Example: "08130" is 81.30 MHz DAB CH & Service number Example: “07A02” is 7A and No.02
Data 6	Tens digit of the frequency (MHz) (FM) The 2nd character of the DAB channel number (DAB)	
Data 7	Ones digit of the frequency (MHz) (FM) The 3rd character of the DAB channel number (DAB)	
Data 8	Tenths digit of the frequency (MHz) (FM) Tens digit of the service number (DAB)	
Data 9	Hundredths digit (MHz) (FM) Ones digit of the service number (DAB)	
Data 10	Reserved. Always 0 (FM/DAB)	

Data 9 (the two decimal places of the frequency) is only valid for the European specification and its value is 0 or 5.

If the controlled device receives data other than the above data, it sends ILLEGAL (F2).

DEVICE SELECT RETURN

DEVICE SELECT RETURN returns the information about the selected device.

Command FF
Category Code 01
Parameter: 2 bytes
Request command DEVICE SELECT [7F01]

Data 5	Data 6	Function	Remarks
0	0	SD	SD is selected
1	0	USB	USB is selected.
2	0	Bluetooth	Bluetooth is selected.
3	0	FM	FM is selected. (MP-800U)
		DAB	DAB is selected. (MP-800UDAB)
3	1	N/A	Not supported (MP-800U)
		FM	FM is selected. (MP-800UDAB)
5	0	AUDIO STREAM	AUDIO STREAM is selected.

PLAY AREA SELECT RETURN

PLAY AREA SELECT RETURN is sent in response to the PLAY AREA SELECT command [7F074F]. This command is not supported when the source is not USB nor SD.

Command FF
Category Code 07
Subcommand CF
Parameter: 2 bytes
Request command PLAY AREA SELECT [7F074F]

Data 7	Data 8	Function	Remarks
0	0	All	
0	1	Folder, not skip mode	
0	F	Folder, skip mode	

CURRENT FILE NAME RETURN

CURRENT FILE NAME RETURN is sent in response to the CURRENT FILE NAME SENSE command [7F4C00] to show the name of the current file.
The ID3 TAG DATA in UTF-16 format is sent from Data 9 on.

Command FF
Category Code 4C
Sub Command 80
Parameter 6 - 2054 bytes
Request command CURRENT FILE NAME SENSE [7F4C00]

	Description	Remarks
Data 5	Tens digit of the length of the file name	
Data 6	ones digit of the length of the file name	
Data 7	Thousands digit of the length of the file name	
Data 8	Hundreds digit of the length of the file name	
Data 9 -	The file name	UTF-16, Length specified by Data5~8 (however, the last 2 bytes are always “00”)

BROWSE CURSOR RETURN

BROWSE CURSOR RETURN is sent in response to the BROWSE CURSOR SENSE command [7F4C01] to show the file or folder name specified by the BROWSE cursor.

The ID3 TAG DATA in UTF-16 format is sent from Data 11 on.

Command	FF
Category Code	4C
Sub Command	81
Parameter	8 - 2056 bytes
Request command	BROWSE CURSOR SENSE [7F4C01]

	Description	Remarks
Data 5	FILE/FOLDER status	00: File 01: Folder
Data 6		
Data 7	Tens digit of the length of the name	
Data 8	Ones digit of the length of the name	
Data 9	Thousands digit of the length of the name	
Data 10	Hundreds digit of the length of the name	
Data 11 -	File/Folder name	UTF-16, Length specified by Data5~8 (however, the last 2 bytes are always “00”)

ID3 TAG DATA RETURN

ID3 TAG DATA RETURN is sent in response to the ID3 TAG DATA SENSE command [7F4C0A] to show the specified ID3 TAG data of the current file when the source is USB or SD.

The ID3 TAG DATA in UTF-16 format is sent from Data 11 on.

Command	FF
Category Code	4C
Sub Command	8A
Parameter	8-2056 bytes
Request command	ID3 TAG DATA SENSE [7F4C0A]

	Description	Remarks
Data 5	ID3 TAG status	00: TITLE, 01: ARTIST, 02: ALBUM,03: FOLDER
Data 6		
Data 7	Tens digit of the length of the specified ID3 TAG data	
Data 8	Ones digit of the length of the specified ID3 TAG data	
Data 9	Thousand digits of the length of the specified ID3 TAG data	
Data 10	Hundred digits of the length of the specified ID3 TAG data	
Data 11 -	The specified ID3 TAG data	UTF-16, Length specified by Data5~8 (however, the last 2 bytes are always “00”)

TOTAL FILE NUMBER RTEURN

TOTAL FILE NUMBER RETURN is sent in response to the TOTAL FILE NUMBER SENSE command [7F4C0F] to show the total number of files on the current media of the controlled device when the current source is USB or SD and the play area is "All" or the total number of files in the current folder on the current media of the controlled device when the current source is USB or SD and the play area is folder

Command FF
Category Code 4C
Sub Command 8F
Parameter 4 bytes
Request command TOTAL FILE NUMBER SENSE [7F4C0F]

	Description	Remarks
Data 5	File number tens digit	Total file number: Example: "1200" is 12 files on the media (When P.Area is “All”) or in the current folder (When “Folder”)
Data 6	File number ones digit	
Data 7	File number thousands digit	
Data 8	File number hundreds digit	

TUNER FREQUENCY RETURN

CURRENT TRACK INFORMATION RETURN is sent in response to the CURRENT TRACK INFORMATION SENSE command [57] to show information about the current frequency when the source is FM or information about the current channel and service number when the source is DAB.

Command FF
Category Code 4F
Subcommand 80
Parameter: 6 bytes
Request command TUNER FREQUENCY PRESET [7F4F00]

	Description	Remarks
Data 5	Hundreds digit of the frequency (MHz) (FM) The 1st character of the DAB channel number (DAB)	
Data 6	Tens digit of the frequency (MHz) (FM) The 2nd character of the DAB channel number (DAB)	Frequency Example: "081300" is 81.30 MHz DAB CH & Service number Example: “07A020” is 7A and No.02
Data 7	Ones digit of the frequency (MHz) (FM) The 3rd character of the DAB channel number (DAB)	
Data 8	Tenths digit of the frequency (MHz) (FM) Tens digit of the service number (DAB)	
Data 9	Hundredths digit (MHz) (FM) Ones digit of the service number (DAB)	
Data 10	Reserved. Always 0 (FM/DAB)	

Revision List

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