audio-technica

ATND1061DAN

Beamforming Array Microphone

IP Control Specifications

Ver.1.0

Table of Contents

1 Preface

1.1 Purpose of This Document

This document describes the command specifications to control the ATND-1061 developed in Audio-Technica.

1.2 Definition of Terms and Numeric Representation

The following table shows the definition of terms used in this document.

Term	Description
Host	A device that issues control commands. It refers to application software or a control device.
Device	A device to be controlled.
AT device	A device developed by Audio-Technica.
Message	A character string transmitted per communication in data format.
Command	A command statement to control a device. It is included in a message.
Parameter	Used in combination with a command. It is a setting value that specifies a command behavior.

The numeric representation is defined as follows:

Binary number: A value followed by b Example: 1010 0110b

Hexadecimal number: A value preceded by 0x Example: 0xA6

2 Basic Specifications

The IP control function uses TCP or UDP protocol to control the ATND-1061.

2.1 Communication Interfaces

Table 2-1 Communication Interfaces

No	Item	Content	Remarks
1.	Communication system	Full duplex	
2.	Transmission speed	10Mbps / 100Mbps	
3.	Port number	Described later	
4.	Compatible connector	Device: RJ45 connector (compatible with 10/100 Mbps) Cable: CAT5e or higher	

2.2 Command Formats

Transmitted commands are categorized as follows:

Table 2-2 Communication Interfaces

No	Command	Content	Remarks
1.	Set Command	Action command	Change the ATND-1061 settings.
2.	Get Command	Action command	Obtain the ATND-1061 settings and status.
3.	ACK	Acknowledge	Responds to a Set Command.
4.	NAK	Negative acknowledge	Responds to a Set / Get Command.
5.	Answer	Setting change notification	Responds to a Get Command.
6.	Information	Status change notification	Report the ATND-1061 settings and status change.
7.	Request	Action request	Requests an action to the host.

2.2.1 Command Common Rules

[1] Use a single-byte space (␣ 0x20) as a delimiter.

[2] In general, use ASCII codes for commands and UTF-8 for the parameters of specific commands (Example: Naming a device, etc.).

[3] Add CR (0x0d) to the end of each command.

Example:

factory_settings␣S␣0000␣00␣NC␣0␣↲

factory_settings␣ACK␣↲

factory_settings␣NAK␣01␣↲

g_deviceid␣O␣0000␣00␣NC␣↲

MD open_channel_notice␣0000␣00␣NC␣0,0,0,0,0,0␣↲

- ␣ Indicates a space.
- ↲: Indicates CR (0x0d).
- : Indicates a command parameter.

2.2.2Set Command/Get Command

The action command format is shown below.

Table 2-3 Action Command Format

No	Item	Content	Size	Remarks
1.	Command	Command string	5byte	See 3.Command List.
2.	Handshake Select	Sequence execution method	1byte	H: Handshake method (Unused) O: One-Way method S: ACK/NAK format
3.	Model ID	Not used	4byte	0000 (fixed)
4.	Unit No	Not used	2byte	00 (fixed)
5.	Continue Select	Message split method	2byte	NC: No divided message CS: Head of divided message CM: Divided message CE: End of divided message
6.	Parameter	Command parameter	0byte~	See Chapter 4.
7.	End Character	Message end character	1byte	CR (0x0D)

2.2.2.1 Omitting Parameters

When you send a command from the host, you can omit its parameters. To omit them, specify no data by separating with commas (,) or leaving a space (␣).

Example: When all the parameters are omitted

s_network␣S␣0000␣00␣NC␣,,,,,,,,,,,,,,,,,,,,␣↲

Depending on the command, however,

- An error may occur when all the parameters are omitted.
- The parameters may just not be specified instead of being omitted.

The details on the above cases and the parameters that cannot be omitted are provided for each command in Chapter 4 or later.

2.2.3ACK

The acknowledge command format is shown below.

Table 2-4 Acknowledge Command Format

No	Item	Content	Size	Remarks
1.	Command	Command string	5byte	See 3.Command List.
2.	ACK	ACK	3byte	ACK (fixed)
3.	End Character	Message end character	1byte	CR (0x0D)

2.2.4NAK

The negative acknowledge command format is shown below.

Table 2-5 Negative Acknowledge Command Format

No	Item	Content	Size	Remarks
1.	Command	Command string	5byte	See 3.Command List.
2.	NAK	NAK	3byte	NAK (fixed)
3.	Error Code	Error code	2byte	See Table 2-6.
4.	End Character	Message end character	1byte	CR (0x0D)

2.2.4.1 Error Codes

The error codes are shown below.

Table 2-6 Error Codes

Error code	Error description	Remarks
01	Syntax error	• A required element is not found. • The character string of a required element is incorrect. • The character string length for each element is outside the specified range. • The message string length including line feed codes is greater than the upper limit.
02	Invalid command	• The command is not found. (A non-existing command was specified. A command that cannot be used for the device was specified.)
03	Splitting transmission error	• "CM" or "CE" was specified when "CS" of Continue Select had not been received.
04	Parameter error	• The parameter is outside the specified range. • Changing a parameter that cannot be changed was attempted.
05	Transmission timeout	Not used
90	Busy	Unable to process due to a busy state
92	Busy (Save mode)	Unable to process due to p-Fail (power shutdown) occurrence
93	Busy(Extension)	Not used
99	Other errors	Errors other than the above

2.2.5 Answer

The command format of the setting status response is shown below.

Table 2-7 Setting Status Return Command Format

No	Item	Content	Size	Remarks
1.	Command	Command string	5byte	See 3.Command List.
2.	Model ID	Not used	4byte	0000 (fixed)
3.	Unit No	Device ID	2byte	00 to FF
4.	Continue Select	Message split method	2byte	NC: No divided message CS: Head of divided message CM: Divided message CE: End of divided message
5.	Parameter	Command parameter	0byte~	See Chapters 4 and 5.
6.	End Character	Message end character	1byte	CR (0x0D)

2.2.6 Information

The command format of the status change notification is shown below.

Table 2-8 Status Change Notification Command Format

No	Item	Content	Size	Remarks
1.	Modify	MD	2byte	MD (fixed)
2.	Command	Command string	5byte	See 3.Command List.
3.	Model ID	Not used	4byte	0000 (fixed)
4.	Unit No	Device ID	2byte	00 to FF
5.	Continue Select	Message split method	2byte	NC: No divided message CS: Head of divided message CM: Divided message CE: End of divided message
6.	Parameter	Command parameter	0byte~	See Chapter 5.
7.	End Character	Message end character	1byte	CR (0x0D)

2.2.7Request

The command format of the action request is shown below.

Table 2-9 Action Request Command Format

No	Item	Content	Size	Remarks
1	Request	RQ	2byte	RQ (fixed)
2	Command	Command string	5byte	See 3.Command List.
3	Model ID	Not used	4byte	0000 (fixed)
4	Unit No	Not used	2byte	00 (fixed)
5	Continue Select	Message split method	2byte	NC: No divided message CS: Head of divided message CM: Divided message CE: End of divided message
6	Parameter	Command parameter	0byte~	See Chapter 4.
7	End Character	Message end character	1byte	CR (0x0D)

3 Command List

Table 3-1 Command List

No	Category	Command	Command Name	Remarks	Type			Remarks
					Set	Get	Info	
1	Individual command	SICL	Input CH Level Change Request		○			
2		GICL	Input CH Level Acquisition Request			○		
3		SICM	Input CH Mute Status Change Request		○			
4		GICM	Input CH Mute Status Acquisition Request			○		
5		SOCL	Output CH Level Change Request		○			
6		GOCL	Output CH Level Acquisition Request			○		
7		SOCM	Output CH Mute Status Change Request		○			
8		GOCM	Output CH Mute Status Acquisition Request			○		
9		CALLP	Preset Call Request		○			
10		REGIP	Preset Save Request		○			
11		MUTE	Device Mute Request		○			
12		SVAD	VAD Enable State Change Request		○			
13	Input	s_input_gain_level	Input Gain&Level Setting Change Request		○			
14		g_input_gain_level	Input Gain&Level Setting Acquisition Request			○		
15		input_gain_level_meter_notice	Input Gain Level Setting Notice				○	
16		s_input_channel_settings	Input Channel Setting Change Request		○			
17		g_input_channel_settings	Input Channel Setting Acquisition Request			○		
18		s_input_eq	Input EQ Setting Change Request		○			
19		g_input_eq	Input EQ Setting Acquisition Request			○		
20		s_aec_general	AEC Setting Change Request		○			
21		g_aec_general	AEC Setting Acquisition Request			○		
22		s_smart_mix	Gain Share Setting Change Request		○			
23		g_smart_mix	Gain Share Setting Acquisition Request			○		
24		s_agc	AGC Setting Change Request		○			
25		g_agc	AGC Setting Acquisition Request			○		
26		s_gainshare_mode	Gain Share Mode Change Request		○			
27		g_gainshare_mode	Gain Share Mode Acquisition Request			○		

No	Category	Command	Command Name	Remarks	Type			Remarks
28	Output	s_output_level	Output Level Setting Change Request		○			
29		g_output_level	Output Level Setting Acquisition Request			○		
30		output_level_notice	Output Level Setting Notice				○	
31		s_output_mute	Output Channel Mute Setting Change Request		○			
32		g_output_mute	Output Channel Mute Setting Acquisition Request			○		
33		output_mute_notice	Output Mute Setting Notice				○	
34		s_output_channel_settings	Output Channel Setting Change Request		○			
35		g_output_channel_settings	Output Channel Setting Acquisition Request			○		
36	System	factory_settings	Factory Default Setting Request		○			
37		s_deviceid	Device ID Change Request		○			
38		g_deviceid	Device ID Acquisition Request			○		
39		s_permission	Permission Setting Change Request		○			
40		g_permission	Permission Setting Acquisition Request			○		
41		s_network	Network Setting Change Request		○			
42		g_network	Network Setting Acquisition Request			○		
43		s_network_dante	Dante Setting Change Request		○			
44		g_network_dante	Dante Setting Acquisition Request			○		
45		g_firmware_version	Firmware Version Acquisition Request			○		
46		s_header_color	Device Color Setting Change Request		○			
47		g_header_color	Device Color Setting Acquisition Request			○		
48		s_log	Log Setting Change Request		○			
49		g_log	Log Setting Acquisition Request			○		
50		s_remotecontrol	External Control Setting Change Request		○			
51		g_remotecontrol	External Control Setting Acquisition Request			○		
52		s_synccontrol	Device Interlock Setting Change Request		○			
53		g_synccontrol	Device Interlock Setting Acquisition Request			○		
54		s_audio_system	Audio System Setting Change Request		○			
55		g_audio_system	Audio System Setting Acquisition Request			○		
56		call_preset	Preset Call Request		○			
57		save_preset	Preset Save Request		○			
58		s_name_bank	Preset Bank Name Change Request		○			

No	Category	Command	Command Name	Remarks	Type			Remarks
59		g_name_bank	Preset Bank Name Acquisition Request			○		
60		s_bootup_preset	Boot Up Preset Setting Change Request		○			
61		g_bootup_preset	Boot Up Preset Setting Acquisition Request			○		
62		g_preset_number	Preset Number Acquisition Request			○		
63		recall_preset_notice	Preset Call Notice				○	
64		file_transfer	File Transfer Request		○			
65		file_transfer_cancel	File Transfer Cancel Request		○			
66		export	Export Request			○		
67		import	Import Request		○			
68		s_level_meter_interval	Level Meter Notification Interval Change Request		○			
69		g_level_meter_interval	Level Meter Notification Interval Acquisition Request			○		
70		level_meter_notice	Level Meter Notice				○	
71		s_talkerposition_interval	Speaker Location Notification Interval Change Request		○			
72		g_talkerposition_interval	Speaker Location Notification Interval Acquisition Request			○		
73		talkerposition_notice	Speaker Location Notification				○	
74		identify	Identify Request		○			
75		s_date	Date Setting Request		○			
76		reboot	Reboot Request		○			
77		s_powersave	Power Save Mode Request		○			
78		powersave_notice	Power Save Mode Notice				○	
79		s_mute	Device Mute Request		○			
80		g_mute	Device Mute Status Acquisition Request			○		
81		mute_notice	Device Mute Notice				○	

4 TCP Communications

To control the ATND-1061 from the host, TCP protocol is used for communications.

4.1 Communication Control

The following figure shows the communication control flow of IP control.

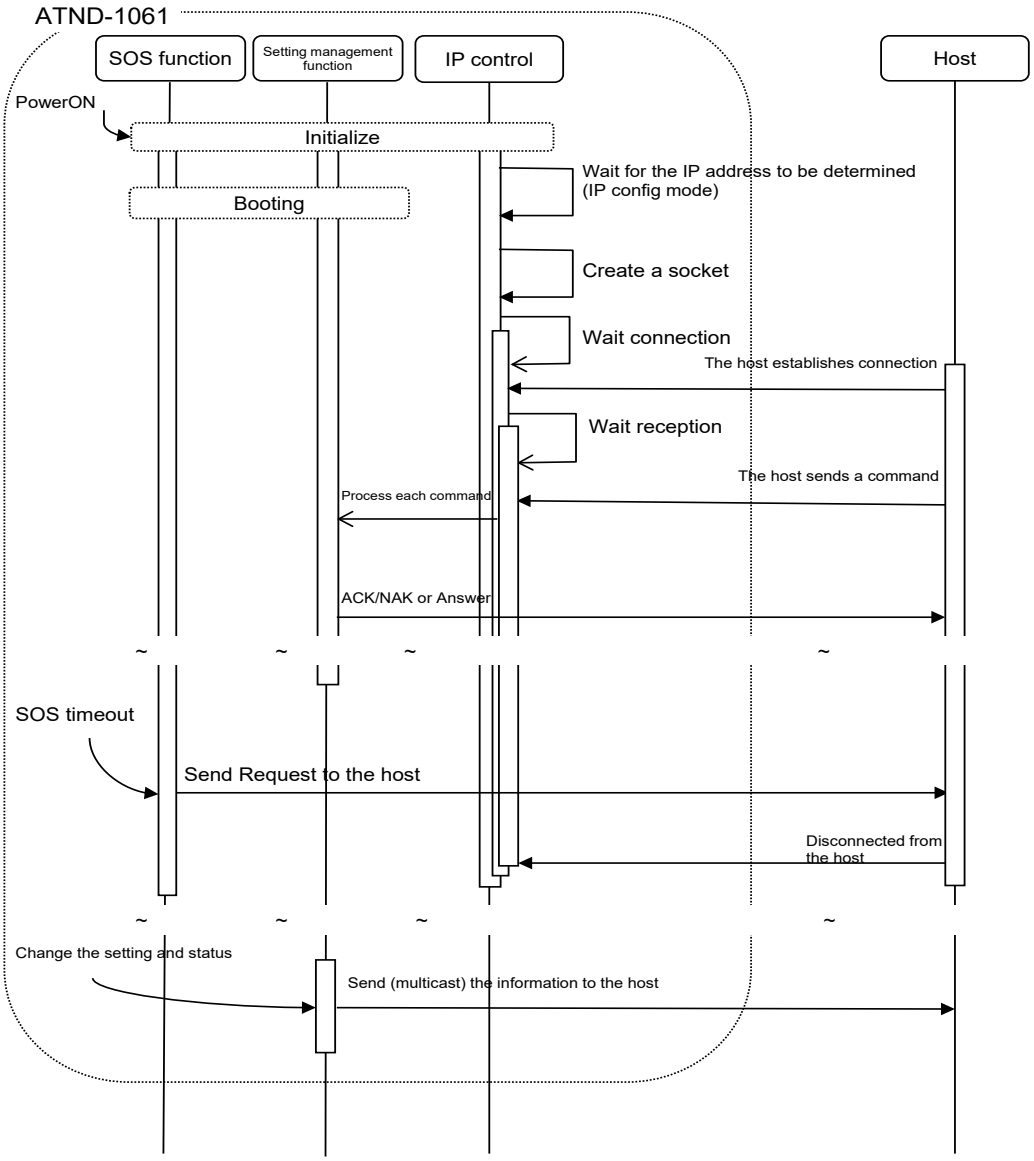

Figure 4-1 Communication Control Flow

- After the system is booted, the status changes from initializing to connection waiting.
- When the host establishes connection with the system, the status changes from connection waiting to reception waiting.
- Received commands are processed by internal processing tasks, and the results (ACK/NAK) are sent.
  Since commands are asynchronously processed, reception is possible even during processing (The next command can be sent without waiting for ACK/NAK and Answer). However, some commands return NAK (90: BUSY).
- When the system is disconnected from the host, the status changes from reception waiting to connection waiting.

4.1.1Communication Start

The host establishes connections with the ATND-1061.

Simultaneous connection is limited to 5 devices. If the number exceeds the upper limit, the extra connection fails.

Table 4-1 Communication Control Parameters

No	Name	Default Setting	Remarks
1.	IPAddress	Auto	
2.	Port No	17300	

4.1.2Control Sequence

4.1.2.1 Set Command

Responding to a Set Command, the ATND-1061 sends ACK/NAK to the sender.

<Example> The sequence of factory default setting is shown below.

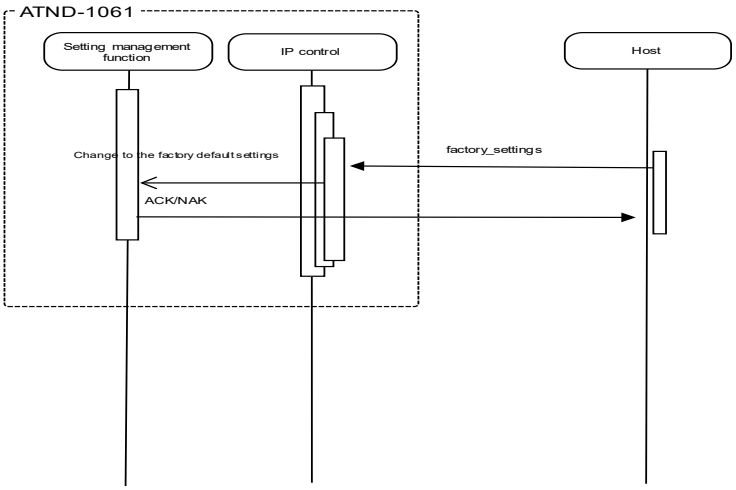

Figure 4-2 Set Command Processing Sequence

If an error occurs in a Set Command, such as a syntax error or incorrect parameter, an NAK command is sent to the sender.

4.1.2.2 **Get Command**

Responding to a Get Command, the ATND-1061 sends Answer to the sender.

<Example> The sequence of Output Level Setting Acquisition Request is shown below.

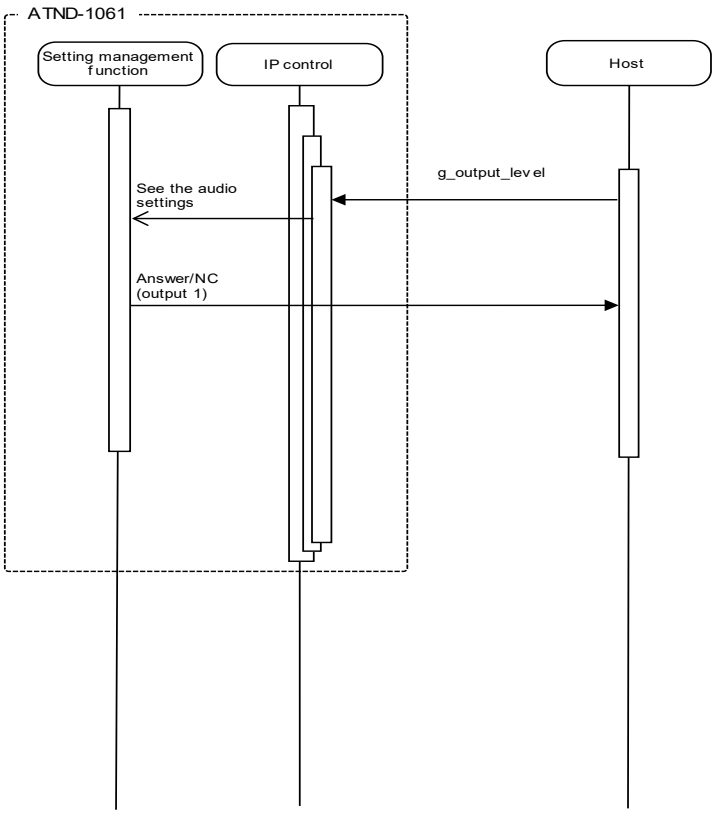

Figure 4-3Get Command Processing Sequence

If an error occurs in a Get Command, such as a syntax error or incorrect parameter, an NAK command is sent to the sender.

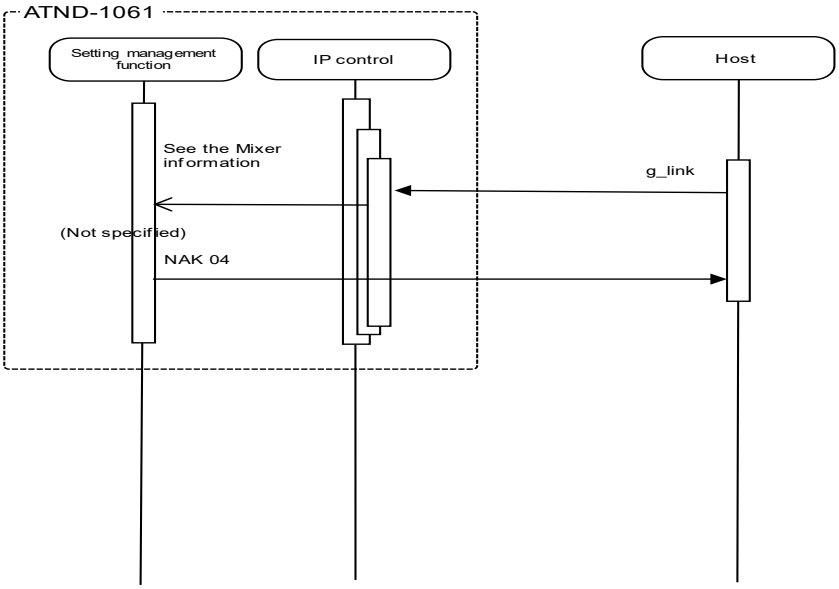

Figure 4-4 Get Command Processing Sequence (NAK)

4.1.2.3 **Request**

The ATND-1061 sends a Request command at any timing. (Not supported)

<Example> The sequence of status check notification is shown below.
The ATND-1061 sends the status check notification command to all the connected sockets.
A host receiving the status check notification command needs to send a specific command to the ATND-1061.

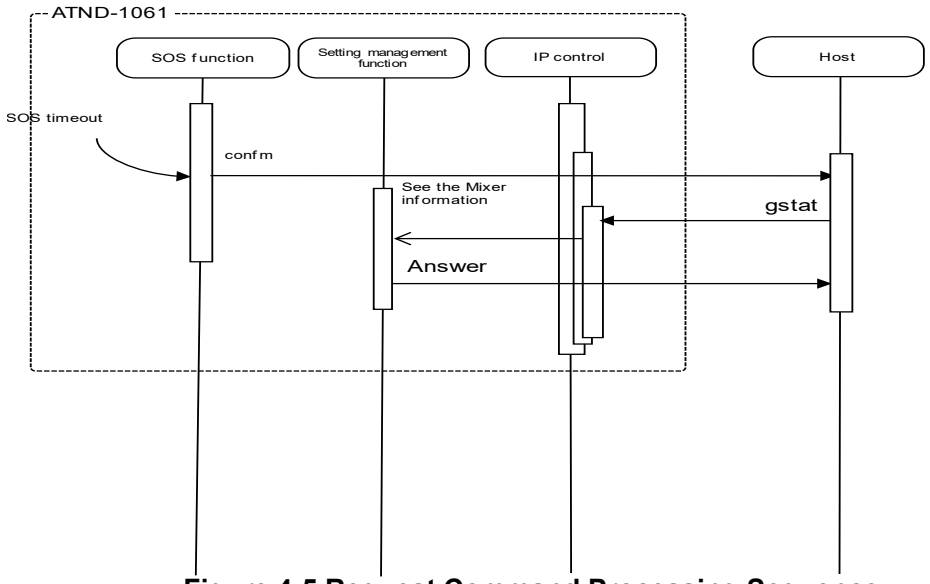

Figure 4-5 Request Command Processing Sequence

4.1.3Communication Errors

4.1.3.1 Transmission Errors

The following figure shows the sequence when an ACK/NAK transmission error occurs.

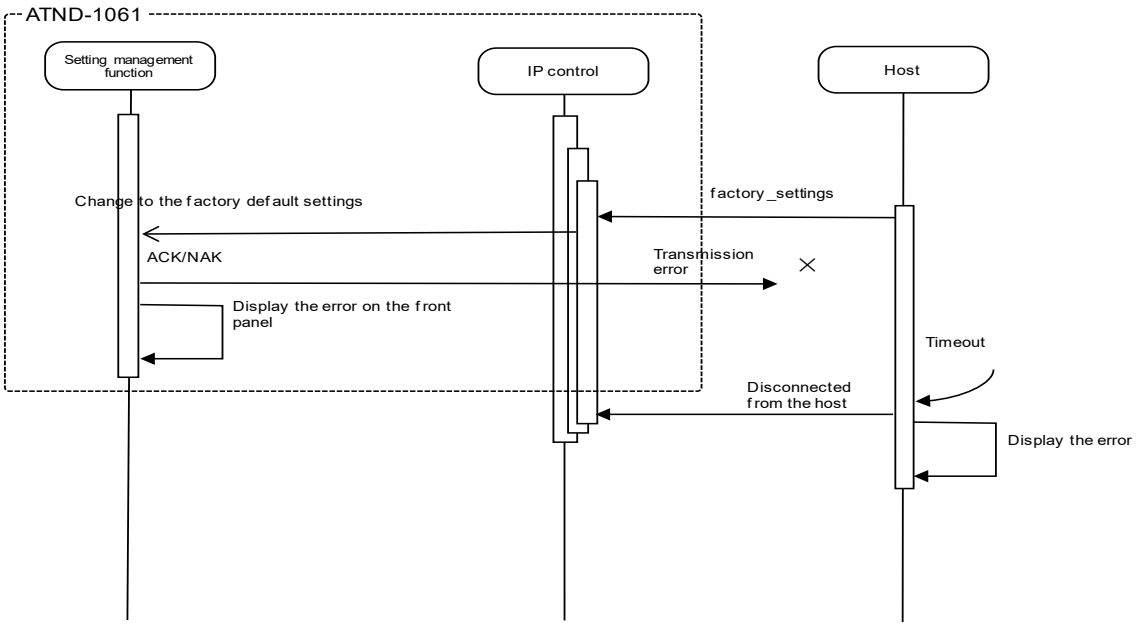

Figure 4-6 Sequence for Transmission Errors

4.1.3.2 Receive Errors

The following figure shows the sequence when a command receive error occurs.

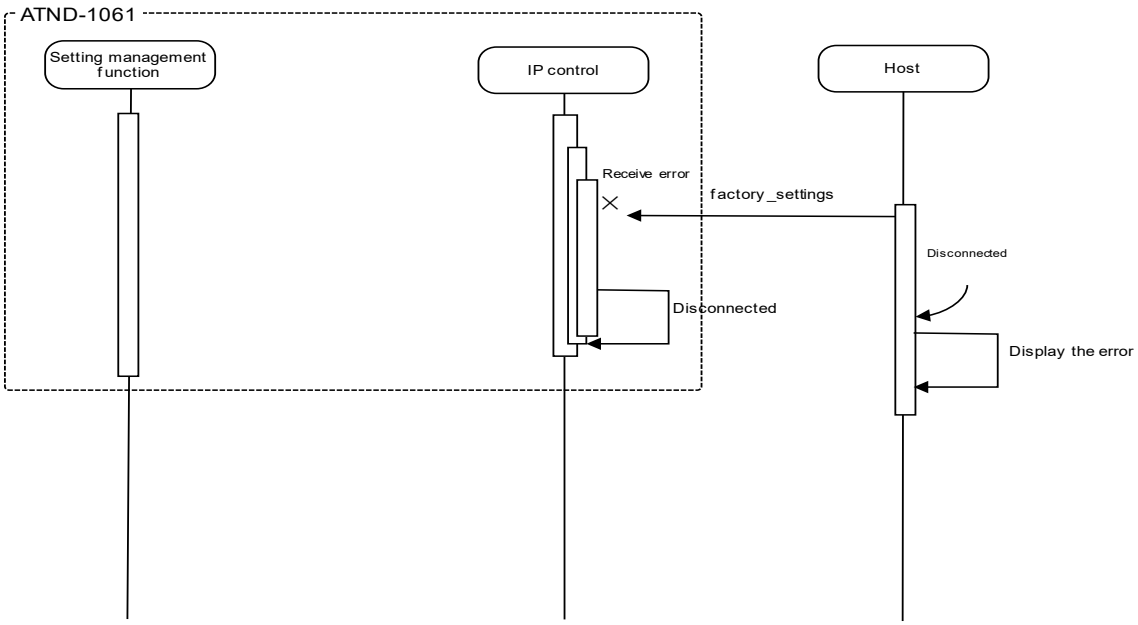

Figure 4-7 Sequence for Receive Errors

4.1.3.3 Message Split Receive Timeouts

The following figure shows the sequence when a message split receive timeout occurs.

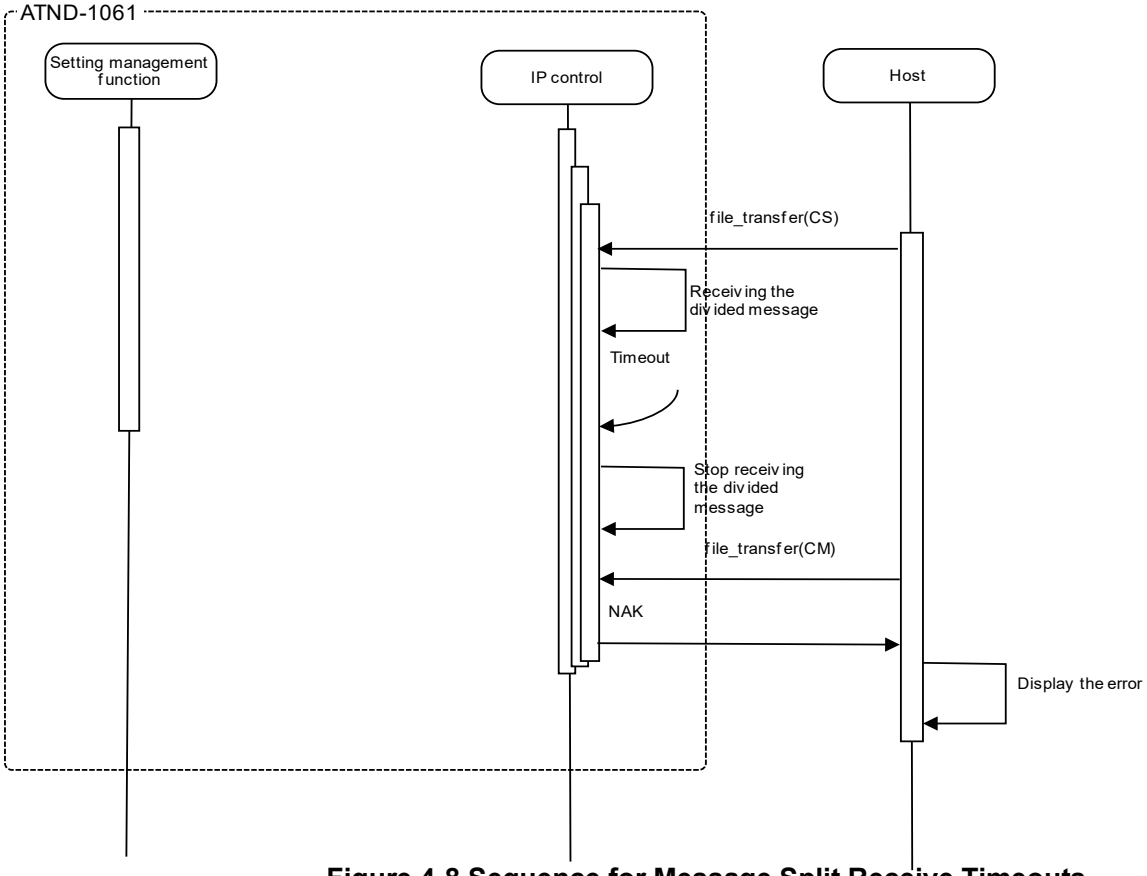

Figure 4-8 Sequence for Message Split Receive Timeouts

4.1.4Communication End

The host can be disconnected at any timing when communications end.

When it is disconnected, the ATND-1061 clears the corresponding connection state (Example: File transferring) and enters the connection wait state again. This occurs even if a cable is disconnected. To communicate again, the host needs to establish connection.

4.2 Individual Command Details

4.2.1 Input CH Level Change Request

After receiving the Input CH Level Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Input CH Level Change Request from the host is shown below.

SICL␣S␣0000␣00␣NC␣6,511␣↲

Table 4-2 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	SICL		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				6	Analog Input	
	Level	Level	string	0 to 511	-∞, -120 to +10 dB	See 6.1 Fader Table.
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.2.2Input CH Level Acquisition Request

After receiving the Input CH Level Acquisition Request, the ATND-1061 sends the input CH level to the host via Answer.

[1] Get Command

The command format of the Input CH Level Acquisition Request from the host is shown below.

GICL␣O␣0000␣00␣NC␣6␣↵

Table 4-3 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	GICL		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				6	Analog Input	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

GICL␣0000␣00␣NC␣6,511␣↲

Table 4-4 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	GICL		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				6	Analog Input	
	Level	Level	string	0 to 511	-∞, -120 to +10 dB	See 6.1 Fader Table.
6	End Character	Message end character	binary	0x0d	CR	

4.2.3 Input CH Mute Status Change Request

After receiving the Input CH Mute Status Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Input CH Mute Status Change Request from the host is shown below.

SICM␣S␣0000␣00␣NC␣6,1␣↲

Table 4-5 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	SICM		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				6	Analog Input	
	Mute	Mute	string	0	Without muting	
				1	With muting	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.2.4Input CH Mute Status Acquisition Request

After receiving the Input CH Mute Status Acquisition Request, the ATND-1061 sends the input CH mute status to the host via Answer.

[1] Get Command

The command format of the Input CH Mute Status Acquisition Request from the host is shown below.

GICM␣O␣0000␣00␣NC␣6␣↲

Table 4-6 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	GICM		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				6	Analog Input	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

GICM␣0000␣00␣NC␣6,1␣↲

Table 4-7 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	GICM		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				6	Analog Input	
	Mute	Mute	string	0	Without muting	
				1	With muting	
6	End Character	Message end character	binary	0x0d	CR	

4.2.5 Output CH Level Change Request

After receiving the Output CH Level Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Output CH Level Change Request from the host is shown below.

SOCL␣S␣0000␣00␣NC␣0,511␣↲

Table 4-8 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	SOCL		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
	Level	Level	string	0 to 511	-∞, -120 to +10 dB	See 6.1 Fader Table.
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.2.6 Output CH Level Acquisition Request

After receiving the Output CH Level Acquisition Request, the ATND-1061 sends output CH level to the host via Answer.

[1] Get Command

The command format of the Output CH Level Acquisition Request from the host is shown below.

GOCL␣O␣0000␣00␣NC␣0␣↲

Table 4-9 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	GOCL		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

GOCL␣0000␣00␣NC␣0,511␣↲

Table 4-10 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	GOCL		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
	Level	Level	string	0 to 511	-∞, -120 to +10 dB	See 6.1 Fader Table.
6	End Character	Message end character	binary	0x0d	CR	

4.2.7 Output CH Mute Status Change Request

After receiving the Output CH Mute Status Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Input CH Mute Status Change Request from the host is shown below.

SOCM␣S␣0000␣00␣NC␣0,1␣↲

Table 4-11 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	SOCM		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
	Mute	Mute	string	0	Without muting	
				1	With muting	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.2.8 Output CH Mute Status Acquisition Request

After receiving the Output CH Mute Status Acquisition Request, the ATND-1061 sends output CH mute status to the host via Answer.

[1] Get Command

The command format of the Output CH Mute Status Acquisition Request from the host is shown below.

GOCM␣O␣0000␣00␣NC␣0␣↵

Table 4-12 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	GOCM		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

GOCM␣0000␣00␣NC␣0,1␣↲

Table 4-13 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	GOCM		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
	Mute	Mute	string	0	Without muting	
				1	With muting	
6	End Character	Message end character	binary	0x0d	CR	

4.2.9 Preset Call Request

After receiving the Preset Call Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Preset Call Request from the host is shown below.

CALLP␣S␣0000␣00␣NC␣16␣↲

Table 4-14 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	CALLP		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Bank Number	Bank number	string	1 to 16	Bank 1 to 16	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.2.10 Preset Save Request

After receiving the Preset Save Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Preset Save Request from the host is shown below.

REGIP␣S␣0000␣00␣NC␣16␣↲

Table 4-15 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	REGIP		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Bank Number	Bank number	string	1 to 16	Bank 1 to 16	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.2.11 Device Mute Request

After receiving the Device Mute Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Device Mute Request from the host is shown below.

MUTE␣S␣0000␣00␣NC␣1␣↲

Table 4-16 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	MUTE		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Mute	Mute	string	0	Without muting	
				1	With muting	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.2.12 VAD Enable State Change Request

After receiving the VAD Enable State Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the VAD Enable State Change Request from the host is shown below.

SVAD␣S␣0000␣00␣NC␣1␣↲

Table 4-17 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	SVAD		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	VAD Enabled	VAD enable	string	0	VAD disable	
				1	VAD enable	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.3 Input Command Details

4.3.1 Input Gain&Level Setting Change Request

After receiving the Input Gain&Level Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Input Gain&Level Setting Change Request from the host is shown below.

s_input_gain_level␣S␣0000␣00␣NC␣6,40,40,511,,,1,,,␣↲

Table 4-18 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_input_gain_level		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				6	Analog Input	
	gain					
	Mic	Mic gain	string	0 to 30	+0db to +30db	See 6.5 Input Gain Table. Disabled for analog input.
	Line	Line gain	string			Not used
	Level	Level	string	0 to 511	-120 to +10db	See 6.1 Fader Table.
	Max Volume					Not used
	Enable	On/Off	string			
	Value	Volume	string			
	Mute	Mute	string	0	Without muting	
				1	With muting	
	gain					Not used
	Virtual Mic	Virtual Mic gain	string			

No	Item	Description	Type	Value	Value Description	Remarks
	Min Volume					Not used
	Enable	On/Off	string			
	Value	Volume	string			
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.3.2Input Gain&Level Setting Acquisition Request

After receiving the Input Gain&Level Setting Acquisition Request, the ATND-1061 sends the input settings to the host via Answer.

[1] Get Command

The command format of the Input Gain&Level Setting Acquisition Request from the host is shown below.

g_input_gain_level␣O␣0000␣00␣NC␣6␣↲

Table 4-19 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_input_gain_level		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				6	Analog Input	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_input_gain_level␣0000␣00␣NC␣6,40,40,511,,,1,,,␣↲

Table 4-20 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_input_gain_level		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				6	Analog Input	
	gain					
	Mic	Mic gain	string	0 to 30	+0db to +30db	See 6.5 Input Gain Table.
				0	+0.25dB	For analog input
	Line	Line gain	string	1	+0.5dB	For analog input
	Level	Level	string	0 to 511	-120 to +10db	See 6.1 Fader Table.
	Max Volume					Not used
	Enable	On/Off	string			
	Value	Volume	string			
	Mute	Mute	string	0	Without muting	
				1	With muting	
	gain					Not used
	Virtual Mic	Virtual Mic gain	string			
	Min Volume					Not used
	Enable	On/Off	string			
	Value	Volume	string			
6	End Character	Message end character	binary	0x0d	CR	

4.3.3Input Channel Setting Change Request

After receiving the Input Channel Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Input Channel Setting Change Request from the host is shown below.

s_input_channel_settings␣S␣0000␣00␣NC␣6,1,1,,1,1,1,,,,,,,,,,,,”ANALOG”,,,,,,,,1,50,60,␣↲

Table 4-21 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_input_channel_settings		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				6	Analog Input	
	source	Input source	string	0	Mic	
				1	Line	Only for analog Ch
	Phantom power	Phantom power	string	0	Off	
				1	On	
	Phase	Phase	string			Not used
	Low cut	Low cut	string	0	Off	
				1	On	
	AEC	AEC	string	0	Off	
				1	On	
	Smart Mix	Smart Mix	string	0	Off	
				1	On	
	Link	Link	string			Not used
	Output Bus					
	Bus 1					Not used
	Bus 2					Not used

No	Item		Description	Type	Value	Value Description	Remarks
		Bus 3					Not used
		Bus 4					Not used
		Bus 5					Not used
		Bus 6					Not used
		Bus 7					Not used
		Bus 8					Not used
		Bus 9					Not used
		Bus 10					Not used
		Bus ST					Not used
	Name		Channel name	char	"	Beginning of character string	
				string	ASCII code	Name	To contain double quotation marks ("), specify them in succession like "".
				char	"	End of character string	
	Color		Channel color	string	0	Green	
					1	Yellow	
					2	Brown	
					3	Red	
					4	Pink	
					5	Blue	
					6	Gray	
					7	DarkGray	
					~~8~~	~~Cyan~~	
	Virtual Mic						Not used
		Orientation	Orientation	string			
		Tilt	Tilt	string			
		Pattern	Pattern	string			
		Placement	Orientation	string			
	Fader Group		Fader Group	string			Not used
	Smart Mix Group		Smart Mix Group	string			Not used
	Mono		Mono	string			Not used
7	End Character		Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.3.4Input Channel Setting Acquisition Request

After receiving the Input Channel Setting Acquisition Request, the ATND-1061 sends the input settings to the host via Answer.

[1] Get Command

The command format of the Input Channel Setting Acquisition Request from the host is shown below.

g_input_channel_settings␣O␣0000␣00␣NC␣6␣↲

Table 4-22 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_input_channel_settings		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				6	Analog Input	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_input_channel_settings␣0000␣00␣NC␣6,1,1,,1,1,1,,,,,,,,,,,,"ANALOG",,,,,,,,1,50,60,␣↲

Table 4-23 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_input_channel_settings		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				6	Analog Input	
	source	Input source	string	0	Mic	
				1	Line	
	Phantom power	Phantom power	string	0	Off	
				1	On	
	Phase	Phase	string			Not used
	Low cut	Low cut	string	0	Off	
				1	On	
	AEC	AEC	string	0	Off	
				1	On	
	Smart Mix	Smart Mix	string	0	Off	
				1	On	
	Link	Link	string			Not used
	Output Bus					
	Bus 1				Not used	
	Bus 2				Not used	
	Bus 3				Not used	
	Bus 4				Not used	
	Bus 5				Not used	
	Bus 6				Not used	

No	Item			Description	Type	Value	Value Description	Remarks
			Bus 7				Not used	
			Bus 8				Not used	
			Bus 9				Not used	
			Bus 10				Not used	
			Bus ST				Not used	
		Name		Channel name	char	"	Beginning of character string	
					string	ASCII code	Name	To contain double quotation marks ("), specify them in succession like "".
					char	"	End of character string	
		Color		Channel color	string	0	Green	
						1	Yellow	
						2	Brown	
						3	Red	
						4	Pink	
						5	Blue	
						6	Gray	
						7	DarkGray	
						~~8~~	~~Cyan~~	
		Virtual Mic						Not used
			Orientation	Orientation	string			
			Tilt	Tilt	string			
			Pattern	Pattern	string			
			Placement	Orientation	string			
		Fader Group		Fader Group	string			Not used
		Smart Mix Group		Smart Mix Group	string			Not used
		Mono		Mono	string			Not used
6	End Character			Message end character	binary	0x0d	CR	

4.3.5Input EQ Setting Change Request

After receiving the Input EQ Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Input EQ Setting Change Request from the host is shown below.

s_input_eq␣S␣0000␣00␣NC␣11,0,1,2,480,72,31,1,480,72,31,1,480,72,31,1,2,480,72,31,1␣↲

Table 4-24 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_input_eq		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				6	Analog Input	
	EQ On/Off	On/Off for the whole EQ CH	string	0	Off	
				1	On	
	Band1					
	Band Enable	Enable	string			Not used
	Filter Type	Type of filter	string	0	LPF/HPF	
				1	LSH/HSH	
				2	PEQ	
	Frequency	Frequency	string	0 to 480	20 Hz to 20 kHz	See 6.2 Frequency Table.
	Gain	Gain	string	0 to 72	-18 dB to +18 dB	See 6.4 EQ Gain Table.
	Q Value	Value of Q	string	0 to 31	0.3 to 60	See 6.3 Q Value Table.
	Band2					
	Band Enable	Enable	string			Not used

No	Item		Description	Type	Value	Value Description	Remarks
		Frequency	Frequency	string	0 to 480	20 Hz to 20 kHz	See 6.2 Frequency Table.
		Gain	Gain	string	0 to 72	-18 dB to +18 dB	See 6.4 EQ Gain Table.
		Q Value	Value of Q	string	0 to 31	0.3 to 60	See 6.3 Q Value Table.
	Band3						Same as Band2
	Band4						Same as Band1
	EQ Mode		EQ mode	string	0	EZ Mode	
					1	Expert Mode	
7	End Character		Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.3.6Input EQ Setting Acquisition Request

After receiving the Input EQ Setting Acquisition Request, the ATND-1061 sends the input settings to the host via Answer.

[1] Get Command

The command format of the Input EQ Setting Acquisition Request from the host is shown below.

g_input_eq␣O␣0000␣00␣NC␣0␣↲

Table 4-25 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_input_eq		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				6	Analog Input	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_input_eq␣0000␣00␣NC␣11,0,1,2,480,72,31,1,480,72,31,1,480,72,31,1,2,480,72,31,1,1␣↲

Table 4-26 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	g_input_eq		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	

No	item	Description	type	value	value description	remarks
5	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				6	Analog Input	
	EQ On/Off	On/Off for the whole EQ CH	string	0	Off	
				1	On	
	Band1					
	Band Enable	Enable	string	0	Off	
				1	On	
	Filter Type	Type of filter	string	0	LPF/HPF	
				1	LSH/HSH	
				2	PEQ	
	Frequency	Frequency	string	0 to 480	20 Hz to 20 kHz	See 6.2 Frequency Table.
	Gain	Gain	string	0 to 72	-18 dB to +18 dB	See 6.4 EQ Gain Table.
	Q Value	Value of Q	string	0 to 31	0.3 to 60	See 6.3 Q Value Table.
	Band2					
	Band Enable	Enable	string	0	Off	
				1	On	
	Frequency	Frequency	string	0 to 480	20 Hz to 20 kHz	See 6.2 Frequency Table.
	Gain	Gain	string	0 to 72	-18 dB to +18 dB	See 6.4 EQ Gain Table.
	Q Value	Value of Q	string	0 to 31	0.3 to 60	See 6.3 Q Value Table.
	Band3					Same as Band2
	Band4					Same as Band1
	EQ Mode	EQ mode	string	0	EZ Mode	
				1	Expert Mode	
6	End Character	Message end character	binary	0x0d	CR	

4.3.7 Gain Share Setting Change Request

After receiving the Gain Share Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Gain Share Setting Change Request from the host is shown below.

s_smart_mix␣S␣0000␣00␣NC␣5,,60,,,,␣↲

Table 4-27 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_smart_mix		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				~~6~~	~~Analog Input~~	
	Smart Mix Group	Smart Mix Group	string			Not used
	GainShare					
	Weight	Weight of GainShare	string	0 to 60	-15.0,-14.5 to +15.0	
	Gate					Not used
	Priority	Priority	string			
	Can Cut	Cut	string			
	Off Atenuation of closed mic	Off mic attenuation	string			
	Threshold	Attenuation	string			
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.3.8 Gain Share Setting Acquisition Request

After receiving the Gain Share Setting Acquisition Request, the ATND-1061 sends the input settings to the host via Answer.

[1] Get Command

The command format of the Gain Share Setting Acquisition Request from the host is shown below.

g_smart_mix␣O␣0000␣00␣NC␣5␣↲

Table 4-28 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_smart_mix		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				~~6~~	~~Analog Input~~	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_smart_mix␣0000␣00␣NC␣5,,60,,,,␣↲

Table 4-29 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_smart_mix		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Beam Channel 1 to 6	
				~~6~~	~~Analog Input~~	
	Smart Mix Group	Smart Mix Group	string			Not used
	GainShare					
	Weight	Weight of GainShare	string	0 to 60	-15.0,-14.5 to +15.0	
	Gate					Not used
	Priority	Priority	string			
	Can Cut	Cut	string			
	Off Atenuation of closed mic	Off mic attenuation	string			
	Threshold	Attenuation	string			
6	End Character	Message end character	binary	0x0d	CR	

4.3.9 AEC Setting Change Request

After receiving the AEC Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the AEC Setting Change Request from the host is shown below.

s_aec_general␣S␣0000␣00␣NC␣2,1,,,0,,20,20,1,1,␣↲

Table 4-30 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_aec_general		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	AEC Enable	The presence or absence of AEC	string	0	Off	
				1	On	
	AEC Reference	AEC Reference	string	0	AnalogInput	
				1	Digital Input	
	Reference Level	Reference Level	string			Not used
	Send Reference	Send Reference	string			Not used
	AEC Sensitivity	AEC Sensitivity	string			Not used
	Bus Select	Bus Select	string			Not used
	Noise Canceling Attenuation Level					
	AEC	Attenuation level (AEC mode)	string			Not used
	Noise Canceling	Attenuation level (Noise Canceling mode)	string	0 to 20	0 to 20 dB	
	Non Lineer Processing					
	Enable	Permission of Non Lineer Processing	string	0	Off	
				1	On	
	Sensitivity	Non Lineer Processing Sensitivity	string	0	Low	
				1	Mid	

No	Item	Description	Type	Value	Value Description	Remarks
				2	High	
	AEC Status Apply	Saving of AEC parameters	string			Not used
	NC Enable	The presence or absence of NC	string	0	Off	
				1	On	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.3.10 AEC Setting Acquisition Request

After receiving the AEC Setting Acquisition Request, the ATND-1061 sends the AEC settings to the host via Answer.

[1] Get Command

The command format of the AEC Setting Acquisition Request from the host is shown below.

g_aec_general␣O␣0000␣00␣NC␣↲

Table 4-31 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_aec_general		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_aec_general␣0000␣00␣NC␣2,1,,,0,,20,20,1,1,␣↲

Table 4-32 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_aec_general		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	AEC Enable	The presence or absence of AEC	string	0	Off	
				1	On	
	AEC Reference	AEC Reference	string	0	AnalogInput	
				1	Digital Input	

No	Item	Description	Type	Value	Value Description	Remarks
	Reference Level	Reference Level	string			Not used
	Send Reference	Send Reference	string			Not used
	AEC Sensitivity	AEC Sensitivity	string			Not used
	Bus Select	Bus Select	string			Not used
	Noise Canceling Attenuation Level					
	AEC	Attenuation level (AEC mode)	string			Not used
	Noise Canceling	Attenuation level (Noise Canceling mode)	string	0 to 20	0 to 20 dB	
	Non Lineer Processing					
	Enable	Permission of Non Lineer Processing	string	0	Off	
				1	On	
	Sensitivity	Non Lineer Processing Sensitivity	string	0	Low	
				1	Mid	
				2	High	
	AEC Status Apply	Saving of AEC parameters	string			Not used
	NC Enable	The presence or absence of NC	string	0	Off	
				1	On	
6	End Character	Message end character	binary	0x0d	CR	

4.3.11 AGC Setting Change Request

After receiving the AGC Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the AGC Setting Change Request from the host is shown below.

s_agc␣S␣0000␣00␣NC␣1,2␣↲

Table 4-33 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_agc		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Enable	Enable	string	0	Off	
				1	On	
	Level	Level	string	0	Low	
				1	Mid	
				2	High	
	Target Level	Target Level	string	-10 to 10	-10 dB to 10 dB	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.3.12 AGC Setting Acquisition Request

After receiving the AGC Setting Acquisition Request, the ATND-1061 sends the AEC settings to the host via Answer.

[1] Get Command

The command format of the AGC Setting Acquisition Request from the host is shown below.

g_agc␣O␣0000␣00␣NC␣↲

Table 4-34 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_agc		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_agc␣0000␣00␣NC␣1,2␣↲

Table 4-35 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_agc		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Enable	Enable	string	0	Off	
				1	On	
	Level	Level	string	0	Low	
				1	Mid	
				2	High	
	Target Level	Target Level	string	-10 to 10	-10 dB to 10 dB	
6	End Character	Message end character	binary	0x0d	CR	

4.3.13 Gain Share Mode Change Request

After receiving the Gain Share Mode Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Gain Share Mode Change Request from the host is shown below.

s_gainshare_mode␣S␣0000␣00␣NC␣1␣↲

Table 4-36 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_gainshare_mode		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Mode	Mode	string	0	Standalone	
				1	Link	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.3.14 Gain Share Mode Acquisition Request

After receiving the Gain Share Mode Acquisition Request, the ATND-1061 sends the AEC settings to the host via Answer.

[1] Get Command

The command format of the Gain Share Mode Acquisition Request from the host is shown below.

g_gainshare_mode␣O␣0000␣00␣NC␣↲

Table 4-37 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_gainshare_mode		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_gainshare_mode␣0000␣00␣NC␣1␣↲

Table 4-38 Answer Command Format

No	Item		Description	Type	Value	Value Description	Remarks
1	Command		Command string	string	g_gainshare_mode		
2	Model ID		Not used	string	0000	Not used	
3	Unit No		Device ID	string	00 to FF	Device ID	
4	Continue Select		Message split method	string	NC	No split	
5	Parameter		Parameter				
		Mode	Mode	string	0	Standalone	
					1	Link	
6	End Character		Message end character	binary	0x0d	CR	

4.4 Output Command Details

4.4.1 Output Level Setting Change Request

After receiving the Output Level Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Output Level Setting Change Request from the host is shown below.

s_output_level␣S␣0000␣00␣NC␣0,511,,,,␣↲

Table 4-39 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_output_level		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
	Level	Level	string	0 to 511	-120 to +10db	See 6.1 Fader Table.
	Max Volume					Not used
	Enable	On/Off	string			
	Value	Volume	string			
	Min Volume					Not used
	Enable	On/Off	string			
	Value	Volume	string			
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.4.2Output Level Setting Acquisition Request

After receiving the Output Level Setting Acquisition Request, the ATND-1061 sends output settings to the host via Answer.

[1] Get Command

The command format of the Output Level Setting Acquisition Request from the host is shown below.

g_output_level␣O␣0000␣00␣NC␣0␣↲

Table 4-40 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_output_level		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_output_level␣0000␣00␣NC␣0,511,,,,␣↲

Table 4-41 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_output_level		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
	Level	Level	string	0 to 511	-120 to +10db	See 6.1 Fader Table.
	Max Volume					Not used
	Enable	On/Off	string			
	Value	Volume	string			
	Min Volume					Not used
	Enable	On/Off	string			
	Value	Volume	string			
6	End Character	Message end character	binary	0x0d	CR	

4.4.3 Output Channel Mute Setting Change Request

After receiving the Output Channel Mute Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Output Channel Mute Setting Change Request from the host is shown below.

s_output_mute␣S␣0000␣00␣NC␣0,1␣↲

Table 4-42 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_output_mute		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
	Mute	Mute	string	0	Without muting	
				1	With muting	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.4.4Output Channel Mute Setting Acquisition Request

After receiving the Output Channel Mute Setting Acquisition Request, the ATND-1061 sends output settings to the host via Answer.

[1] Get Command

The command format of the Output Channel Mute Setting Acquisition Request from the host is shown below.

g_output_mute␣O␣0000␣00␣NC␣0␣↲

Table 4-43 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_output_mute		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_output_mute␣0000␣00␣NC␣0,1␣↲

Table 4-44 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_output_mute		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
	Mute	Mute	string	0	Without muting	
				1	With muting	
6	End Character	Message end character	binary	0x0d	CR	

4.4.5 Output Channel Setting Change Request

After receiving the Output Channel Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Output Channel Setting Change Request from the host is shown below.

s_output_channel_settings␣S␣0000␣00␣NC␣0,3,”OUT 1”,,,,␣↲

Table 4-45 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_output_channel_settings		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
	Unity	Unity	string	0	+4dBu	
				~~1~~	~~0dBv~~	
				2	-10dBv	
				3	-33dBv	
	Name	Channel name	char	"	Beginning of character string	
			string	ASCII code	Name	To contain double quotation marks ("), specify them in succession like "".
			char	"	End of character string	
	Color	Channel color	string			Not used
	Link	Link	string			Not used
	Source	Input source	string			Not used
	Fader Group	Fader Group	string			Not used
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.4.6 Output Channel Setting Acquisition Request

After receiving the Output Channel Setting Acquisition Request, the ATND-1061 sends output settings to the host via Answer.

[1] Get Command

The command format of the Output Channel Setting Acquisition Request from the host is shown below.

g_output_channel_settings␣O␣0000␣00␣NC␣0␣↲

Table 4-46 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_output_channel_settings		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_output_channel_settings␣0000␣00␣NC␣0,3,”OUT 1”,FFFFFF,1,13␣↲

Table 4-47 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_output_channel_settings		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
	Unity	Unity	string	0	+4dBu	
				~~1~~	~~0dBv~~	
				2	-10dBv	
				3	-33dBv	
	Name	Channel name	char	"	Beginning of character string	
			string	ASCII code	Name	To contain double quotation marks ("), specify them in succession like "".
			char	"	End of character string	
	Color	Channel color	string			Not used
	Link	Link	string			Not used
	Source	Input source	string			Not used
	Fader Group	Fader Group	string			Not used
6	End Character	Message end character	binary	0x0d	CR	

4.5 System Command Details

4.5.1 Factory Default Setting Request

After receiving the Factory Default Setting Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Factory Default Setting Request from the host is shown below.

factory_settings␣S␣0000␣00␣NC␣0␣↲

Table 4-48 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	factory_settings		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Reset Item	Reset items				
	All Setting to Default.	All settings	string	0	All Reset	Optional
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

factory_settings␣ACK␣↲

Table 4-49 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	factory_settings		Sets the received Set/Get command
2	ACK	ACK	string	ACK		
3	End Character	Message end character	binary	0x0d	CR	

factory_settings␣NAK␣01␣↲

Table 4-50 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	factory_settings		Sets the received Set/Get command
2	NAK	NAK	string	NAK		
3	Error Code	Error code	string	00 to 99	Error code	See Chapter 2.2.4.
4	End Character	Message end character	binary	0x0d	CR	

4.5.2Permission Setting Change Request

After receiving the Permission Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Permission Setting Change Request from the host is shown below.

s_permission␣S␣0000␣00␣NC␣”ATND-1061”,0,␣↲

Table 4-51 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_permission		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Device Name	Device name	char	"	Beginning of character string	
			string	ASCII code	Device name	To contain double quotation marks ("), specify them in succession like "".
			char	"	End of character string	
	Administrator					Not used
	Password require	Password requirement at login	string			
	password	Password	string			
	Operator					Not used
	Password require	Password requirement at login	string			
	password	Password	string			
	Operator Access					Not used
	Install Setting	Install setting permission	string			
	Logging	Logging permission	string			
	Preset	Presets permission	string			
	Conference	Start Conference & Setup Conference permission	string			

No	Item			Description	Type	Value	Value Description	Remarks
			maintenance	Setting maintenance permission	string			
			System Info	System Info permission	string			
7	End Character			Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.3 Permission Setting Acquisition Request

After receiving the Permission Setting Acquisition Request, the ATND-1061 sends the permission settings to the host via Answer.

[1] Get Command

The command format of the Permission Setting Acquisition Request from the host is shown below.

g_permission␣O␣0000␣00␣NC␣↲

Table 4-52 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_permission		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_permission␣0000␣00␣NC␣”ATDM-1012”,0,␣↲

Table 4-53 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_permission		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter	string			
	Device Name	Device name	char	"	Beginning of character string	
			string	ASCII code	Device name	To contain double quotation marks ("), specify them in succession like "".
			char	"	End of character string	
	Administrator					Not used
	Password require	Password requirement at login	string			
	password	Password	string			
	Operator					Not used
	Password require	Password requirement at login	string			
	password	Password	string			
	Operator Access					Not used
	Install Setting	Install setting permission	string			
	Logging	Logging permission	string			
	Preset	Presets permission	string			
	Conference	Start Conference & Setup Conference permission	string			
	maintenance	Setting maintenance permission	string			
	System Info	System Info permission	string			
6	End Character	Message end character	binary	0x0d	CR	

4.5.4Network Setting Change Request

After receiving the Network Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

If the network settings are changed, the ATND-1061 needs to be rebooted.

[1] Set Command

The command format of the Network Setting Change Request from the host is shown below.

s_network␣S␣0000␣00␣NC␣1,192.168.033.102,255.255.000.000,,1,17300,1,1,225.000.000.100,17000,0,,,,0,,,,,1␣↲

Table 4-54 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_network		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	IP setting					
	IP config mode	IP address resolution method	string	0	Auto	
				1	Static	
	IP address	IP address	string	000,000,000,000 to 255,255,255,255	IP address	
	Subnet mask	Subnet mask	string	000,000,000,000 to 255,255,255,255	Subnet mask	
	Gateway address	Default gateway	string	000,000,000,000 to 255,255,255,255	Default gateway	
	Allow Discovery	UPnP	string	0	Not detect	
				1	Detect	
	IP control setting					
	Port Number	TCP/IP port number	string	1 to 65535	Port number	
	Notification	The presence or absence of information transmission	string	0	Not use	
				1	Use	
	Audio Level Notification	The presence or absence of transmission of Audio Level information	string	0	Not use	

No	Item	Description	Type	Value	Value Description	Remarks
				1	Use	
	Multicast address	Multicast group address	string	000,000,000,000 to 255,255,255,255	IP address	
	Multicast port number	Multicast port number	string	1 to 65535	Port number	
	NTP setting					Not used
	Enabled	NTP use	string	0	Not use	
				1	Use	
	NTP server address	NTP server address	string	000,000,000,000 to 255,255,255,255	IP address	
	NTP port number	NTP server port number	string	1 to 65535	Port number	
	Time Zone	Difference from GMT	string	-1200 to +1400	±HHMM (in units of 30 minutes)	
	Daylight saving time	Daylight saving time	string	0	Not use	
				1	Use	
	Start Date	Start date of daylight saving time	string	01010000 to 12312300	MMDDHHmm (Units: 1 hour)	
	End Date	End date of daylight saving time	string	01010000 to 12312300	MMDDHHmm (Units: 1 hour)	
	Auto Mode Change When Network Connection Lost					Not used
	Enabled	Conference mode automatic change	string			
	Hold time after network error	Judgment time for conference mode automatic change	string			
	IP control setting					
	Camera Control Notification	The presence or absence of transmission of Camera Control Notification	string	0	Not use	
				1	Use	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.5 Network Setting Acquisition Request

After receiving the Network Setting Acquisition Request, the ATND-1061 sends the network settings to the host via Answer.

[1] Get Command

The command format of the Network Setting Acquisition Request from the host is shown below.

g_network␣O␣0000␣00␣NC␣↲

Table 4-55 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_network		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_network␣0000␣00␣NC␣1,,,,0005CDC102FA,1,17300,1,1,225.000.000.100,17000,0

,,,,0,,,,,1␣↲

Table 4-56 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_network		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	IP setting					
	IP config mode	IP address resolution method	string	0	Auto	
				1	Static	
	IP address	IP address	string	000,000,000,000 to 255,255,255,255	IP address	
	Subnet mask	Subnet mask	string	000,000,000,000 to 255,255,255,255	Subnet mask	
	Gateway address	Default gateway	string	000,000,000,000 to 255,255,255,255	Default gateway	
	MAC address	MAC address	string	XXXXXXYYYYYY	MAC address	
	Allow Discovery	UPnP	string	0	Not detect	
				1	Detect	
	IP control setting					
	Port Number	TCP/IP port number	string	1 to 65535	Port number	
	Notification	The presence or absence of information transmission	string	0	Not use	
				1	Use	
	Audio Level Notification	The presence or absence of transmission of Audio Level information	string	0	Not use	
				1	Use	
	Multicast address	Multicast group address	string	000,000,000,000 to 255,255,255,255	IP address	

No	Item	Description	Type	Value	Value Description	Remarks
	Multicast port number	Multicast port number	string	1 to 65535	Port number	
	NTP setting					Not used
	Enabled	NTP use	string	0	Not use	
				1	Use	
	NTP server address	NTP server address	string	000,000,000,000 to 255,255,255,255	IP address	
	NTP port number	NTP server port number	string	1 to 65535	Port number	
	Time Zone	Difference from GMT	string	-1200 to +1400	±HHMM (in units of 30 minutes)	
	Daylight saving time	Daylight saving time	string	0	Not use	
				1	Use	
	Start Date	Start date of daylight saving time	string	01010000 to 12312300	MMDDHHmm (Units: 1 hour)	
	End Date	End date of daylight saving time	string	01010000 to 12312300	MMDDHHmm (Units: 1 hour)	
	Auto Mode Change When Network Connection Lost					Not used
	Enabled	Conference mode automatic change	string			
	Hold time after network error	Judgment time for conference mode automatic change	string			
	IP control setting					
	Camera Control Notification	The presence or absence of transmission of Camera Control Notification	string	0	Not use	
				1	Use	
6	End Character	Message end character	binary	0x0d	CR	

4.5.6 Dante Setting Change Request

After receiving the Dante Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

If the Dante settings are changed, the ATND-1061 needs to be rebooted.

[1] Set Command

The command format of the Dante Setting Change Request from the host is shown below.

s_network_dante␣S␣0000␣00␣NC␣0,5,1,192.168.033.102,255.255.000.000,,,1,192.168.033.103,255.255.000.000,,␣↲

Table 4-57 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_network_dante		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Network Configuration					
	Mode	Mode	string	0	Switched	
				~~1~~	~~Redundant Audio~~	
				2	Split	
	Latency		string	~~0~~	~~150usec~~	0 is assumed to be out of range and cannot be set.
				1	250usec	
				2	500usec	
				3	1msec	
				4	2msec	
				5	5msec	
	Port Setting/Primary	Primary settings				
	IP Config mode	IP address acquisition method	string	0	Auto	
				1	Static	
	IP address	IP address	string	000,000,000,000 to	IP address	

No	Item			Description	Type	Value	Value Description	Remarks
						255,255,255,255		
			Subnet mask	Subnet mask	string	000,000,000,000 to 255,255,255,255	Subnet mask	
			Gateway address	Default gateway	string	000,000,000,000 to 255,255,255,255	IP address	
			Reserved	Reserved	string			
		Port Setting/Secondary		Secondary settings				Same as Primary
7	End Character			Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.7 Dante Setting Acquisition Request

After receiving the Dante Setting Acquisition Request, the ATND-1061 sends the network settings to the host via Answer.

[1] Get Command

The command format of the Dante Setting Acquisition Request from the host is shown below.

g_network_dante␣O␣0000␣00␣NC␣↲

Table 4-58 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_network_dante		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_network_dante␣0000␣00␣NC␣0,5,1,192.168.033.102,255.255.000.000,,,1,192.168.033.103,255.255.000.000,,␣↲

Table 4-59 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_network_dante		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Network Configuration					

No	Item			Description	Type	Value	Value Description	Remarks
			Mode	Mode	string	0	Switched	
						~~1~~	~~Redundant Audio~~	
						2	Split	
			Latency		string	~~0~~	~~150usec~~	0 is assumed to be out of range and cannot be set.
						1	250usec	
						2	500usec	
						3	1msec	
						4	2msec	
						5	5msec	
		Port Setting/Primary		Primary settings				
			IP Config mode	IP address acquisition method	string	0	Auto	
						1	Static	
			IP address	IP address	string	000,000,000,000 to 255,255,255,255	IP address	
			Subnet mask	Subnet mask	string	000,000,000,000 to 255,255,255,255	Subnet mask	
			Gateway address	Default gateway	string	000,000,000,000 to 255,255,255,255	IP address	
			Reserved	Reserved	string			
		Port Setting/Secondary		Secondary settings				Same as Primary
6	End Character			Message end character	binary	0x0d	CR	

4.5.8 Firmware Version Acquisition Request

After receiving the Firmware Version Acquisition Request, the ATND-1061 sends the device firmware version to the host via Answer.

[1] Get Command

The command format of the Firmware Version Acquisition Request from the host is shown below.

g_firmware_version␣O␣0000␣00␣NC␣↲

Table 4-60 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_firmware_version		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_firmware_version␣0000␣00␣NC␣01.00.00␣↲

Table 4-61 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_firmware_version		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	version	Version	string	XX.XX.XX	Version	
6	End Character	Message end character	binary	0x0d	CR	

4.5.9 Device Color Setting Change Request

After receiving the Device Color Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Get Command

The command of the Device Color Setting Change Request from the host is shown below.

s_header_color␣S␣0000␣00␣NC␣8␣↲

Table 4-62 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_header_color		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Header Color	Header color	string	0	Green	
				1	Yellow	
				~~2~~	~~Brown~~	
				3	Red	
				4	Pink	
				5	Blue	
				~~6~~	~~Gray~~	
				~~7~~	~~DarkGray~~	
				8	Cyan	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.10 Device Color Setting Acquisition Request

After receiving the Device Color Setting Acquisition Request, the ATND-1061 sends the header color settings to the host via Answer.

[1] Get Command

The command of the Device Color Setting Acquisition Request from the host is shown below

g_header_color␣O␣0000␣00␣NC␣↲

Table 4-63 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_header_color		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below

g_header_color␣0000␣00␣NC␣8␣↲

Table 4-64 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_header_color		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Header Color	Header color	string	0	Green	
				1	Yellow	
				~~2~~	~~Brown~~	
				3	Red	
				4	Pink	
				5	Blue	
				~~6~~	~~Gray~~	
				~~7~~	~~DarkGray~~	
				8	Cyan	
6	End Character	Message end character	binary	0x0d	CR	

4.5.11 Log Setting Change Request

After receiving the Log Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Log Setting Change Request from the host is shown below.

s_log␣S␣0000␣00␣NC␣1,2␣↲

Table 4-65 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_log		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Enabled	Log output	string	0	Disable	
				1	Enable	
	Output destination	Output destination	string	0	Internal	
				~~1~~	~~USB~~	Not used
				2	Syslog	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.12 Log Setting Acquisition Request

After receiving the Log Setting Acquisition Request, the ATND-1061 sends the log settings to the host via Answer.

[1] Get Command

The command format of the Log Setting Acquisition Request from the host is shown below.

g_log␣O␣0000␣00␣NC␣↲

Table 4-66 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_log		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_log␣0000␣00␣NC␣1,2␣↲

Table 4-67 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_log		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Enabled	Log output	string	0	Disable	
				1	Enable	
	Output destination	Output destination	string	0	Internal	
				~~1~~	~~USB~~	Not used
				2	Syslog	
6	End Character	Message end character	binary	0x0d	CR	

4.5.13 LED Setting Change Request

After receiving the LED Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the LED Setting Change Request from the host is shown below.

s_led␣S␣0000␣00␣NC␣1,4,10,10,10␣↲

Table 4-68 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_led		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Dimmer	Dimmer	string	0	OFF	
				1	ON	
	Brightness	Brightness	string	1 to 4	Brightness when Dimmer is ON	Not used
	Power Save Mode	LED color when in Power Save mode	string	0	Black	
				1	Red	
				2	Orange	
				3	Yellow	
				4	Pink	
				5	Purple	
				6	Blue	
				7	Aqua	
				8	Green	
				9	Cyan	
				10	White	
	Mute	LED color when muting is in effect	string	0 to 10	Same as in Power Save mode	
	Unmute	LED color when muting is canceled	string	0 to 10	Same as in Power Save mode	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.14 LED Setting Acquisition Request

After receiving the LED Setting Acquisition Request, the ATND-1061 sends the log settings to the host via Answer.

[1] Get Command

The command format of the LED Setting Acquisition Request from the host is shown below.

g_led␣O␣0000␣00␣NC␣↲

Table 4-69 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_led		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_led␣0000␣00␣NC␣4,9,0,5␣↲

Table 4-70 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_led		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Dimmer	Dimmer	string	0	OFF	
				1	ON	
	Brightness	Brightness	string	1 to 4	Brightness when Dimmer is ON	Not used
	Power Save Mode	LED color when in Power Save mode	string	0	Black	
				1	Red	
				2	Orange	
				3	Yellow	
				4	Pink	
				5	Purple	
				6	Blue	
				7	Aqua	
				8	Green	
				9	Cyan	
				10	White	
	Mute	LED color when muting is in effect	string	0 to 10	Same as in Power Save mode	
	Unmute	LED color when muting is canceled	string	0 to 10	Same as in Power Save mode	
6	End Character	Message end character	binary	0x0d	CR	

4.5.15 Preset Call Request

After receiving the Preset Call Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Preset Call Request from the host is shown below.

call_preset␣S␣0000␣00␣NC␣16␣↲

Table 4-71 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	call_preset		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Bank Number	Bank number	string	1 to 16	Bank 1 to 16	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.16 Preset Save Request

After receiving the Preset Save Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Preset Save Request from the host is shown below.

save␣preset␣S␣0000␣00␣NC␣16␣↲

Table 4-72 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	save_preset		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Bank Number	Bank number	string	1 to 16	Bank 1 to 16	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.17 Preset Bank Name Change Request

After receiving the Preset Bank Name Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Preset Bank Name Change Request from the host is shown below.

s_name_bank␣S␣0000␣00␣NC␣16,”preset 16”␣↲

Table 4-73 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_name_bank		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Bank Number	Bank number	string	1 to 16	Bank 1 to 16	
	Name	Bank name	char	"	Beginning of character string	
			string	ASCII code	Bank name	To contain double quotation marks ("), specify them in succession like "".
			char	"	End of character string	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.18 Preset Bank Name Acquisition Request

After receiving the Preset Bank Name Acquisition Request, the ATND-1061 sends the Preset Bank Name Acquisition Request to the host via Answer.

[1] Get Command

The command format of the Preset Bank Name Acquisition Request from the host is shown below.

g_name_bank␣O␣0000␣00␣NC␣↲

Table 4-74 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_name_bank		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_name_bank␣0000␣00␣CS␣1,”preset 1”␣↲

g_name_bank␣0000␣00␣CM␣2,”preset 2”␣↲

⋮

g_name_bank␣0000␣00␣CM␣15,”preset 15”␣↲

g_name_bank␣0000␣00␣CE␣16,”preset 16”␣↲

Table 4-75 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_name_bank		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	CS/CM/CE	Split	
5	Parameter	Parameter				
	Bank Number	Bank number	string	1 to 16	Bank 1 to 16	
	Name	Bank name	char	"	Beginning of character string	
			string	ASCII code	Bank name	To contain double quotation marks ("), specify them in succession like "".
			char	"	End of character string	
6	End Character	Message end character	binary	0x0d	CR	

4.5.19 Boot Up Preset Setting Change Request

After receiving the Boot Up Preset Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Boot Up Preset Setting Change Request from the host is shown below.

s_bootup_preset␣S␣0000␣00␣NC␣16␣↲

Table 4-76 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_bootup_preset		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Bank Number	Bank number	string	0	Not select	
				1 to 8	Bank 1 to 16	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.20 Boot Up Preset Setting Acquisition Request

After receiving the Boot Up Preset Setting Acquisition Request, the ATND-1061 sends the log settings to the host via Answer.

[1] Get Command

The command format of the Boot Up Preset Setting Acquisition Request from the host is shown below.

g_bootup_preset␣O␣0000␣00␣NC␣↲

Table 4-77 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_bootup_preset		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_bootup_preset␣0000␣00␣NC␣16␣↲

Table 4-78 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_bootup_preset		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Bank Number	Bank number	string	0	Not select	
				1 to 8	Bank 1 to 16	
6	End Character	Message end character	binary	0x0d	CR	

4.5.21 File Transfer Request

After receiving the File Transfer Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the File Transfer Request from the host is shown below.

file_transfer␣S␣0000␣00␣CS␣p1,00000400,1024,[binary data]␣↲

file_transfer␣S␣0000␣00␣CM␣p1,00000800,1024,[binary data]␣↲

•
•
•

file_transfer␣S␣0000␣00␣CM␣p1,00001000,1024,[binary data]␣↲

file_transfer␣S␣0000␣00␣CE␣p1,00001400,256,[binary data]␣↲

Table 4-79 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	file_transfer		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC/CS/CM/CE	Split	
6	Parameter	Parameter				
	Kind	Transfer data type	string	See 6.6Transfer Data Type.		
	File Offset	Offset	string	00000000 to FFFFFFFF	Specify the offset in the transfer file in HEX. Do not add “0x". A value obtained with ftell (FILE*)	
	Size	Size	string	0001 to 1024	Specify the number of bytes of transfer data in DEC.	
	Data	Transfer data	binary	-	Specify the transfer data in binary.	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.22 File Transfer Cancel Request

After receiving the File Transfer Cancel Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the File Transfer Cancel Request from the host is shown below.

file_transfer_cancel␣S␣0000␣00␣NC␣p1␣↲

Table 4-80 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	file_transfer_cancel		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC/CS/CM/CE	Split	
6	Parameter	Parameter				
	Kind	Transfer data type	string	See 6.6Transfer Data Type.		
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.23 Export Request

After receiving the Export Request, the ATND-1061 sends specified data to the host via ACK or NAK.

[1] Get Command

The command format of the Export Request from the host is shown below.

export␣O␣0000␣00␣NC␣p1␣↲

Table 4-81 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	export		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Kind	Transfer data type	string	See 6.6Transfer Data Type.		
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

export␣0000␣00␣CS␣p1,00000400,1024,[binary data]␣↲

export␣0000␣00␣CM␣p1,00000800,1024,[binary data]␣↲

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export␣0000␣00␣CM␣p1,00001000,1024,[binary data]␣↲

export␣0000␣00␣CE␣p1,00001400,256,[binary data]␣↲

Table 4-82 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	export		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC/CS/CM/CE	Split	
5	Parameter	Parameter				
	Kind	Transfer data type	string	See 6.6Transfer Data Type.		
	File Offset	Offset	string	00000000 to FFFFFFFF	Specify the offset in the transfer file in HEX. Do not add “0x". A value obtained with ftell (FILE*)	
	Size	Size	string	0001 to 1024	Specify the number of bytes of transfer data in DEC.	
	Data	Transfer data	binary	-	Specify the transfer data in binary.	
6	End Character	Message end character	binary	0x0d	CR	

4.5.24 Import Request

After receiving the Import Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

After Import Request, use the File Transfer Request command for transfer data.

[1] Set Command

The command format of the Import Request from the host is shown below.

import␣S␣0000␣00␣NC␣p1␣↲

Table 4-83 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	import		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Kind	Transfer data type	string	See 6.6Transfer Data Type.		
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.25 Level Meter Notification Interval Change Request

After receiving the Level Meter Notification Interval Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Get Command

The command format of the Level Meter Notification Interval Change Request from the host is shown below.

s_level_meter_interval␣S␣0000␣00␣NC␣100␣↲

Table 4-84 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_level_meter_interval		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Interval	Notification interval	string	100 to 300000	msec	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.26 Level Meter Notification Interval Acquisition Request

After receiving the Level Meter Notification Interval Acquisition Request, the ATND-1061 sends the Level Meter settings to the host via Answer.

[1] Get Command

The command format of the Level Meter Notification Interval Acquisition Request from the host is shown below.

g_level_meter_interval␣O␣0000␣00␣NC␣↲

Table 4-85 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_level_meter_interval		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter		-	-	None
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_level_meter_interval␣0000␣00␣NC␣100␣↲

Table 4-86 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_level_meter_interval		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Interval	Notification interval	string	100 to 300000	msec	
6	End Character	Message end character	binary	0x0d	CR	

4.5.27 Speaker Location Notification Interval Change Request

After receiving the Speaker Location Notification Interval Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Get Command

The command format of the Speaker Location Notification Interval Change Request from the host is shown below.

s_camera_control_interval␣S␣0000␣00␣NC␣100␣↲

Table 4-87 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_camera_control_interval		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Interval	Notification interval	string	100 to 300000	msec	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.28 Speaker Location Notification Interval Acquisition Request

After receiving the Speaker Location Notification Interval Acquisition Request, the ATND-1061 sends the Level Meter settings to the host via Answer.

[1] Get Command

The command format of the Speaker Location Notification Interval Acquisition Request from the host is shown below.

g_camera_control_interval␣O␣0000␣00␣NC␣↲

Table 4-88 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_camera_control_interval		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter		-	-	None
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below.

g_talkerposition_interval␣0000␣00␣NC␣100␣↲

Table 4-89 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_talkerposition_interval		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Interval	Notification interval	string	100 to 300000	msec	
6	End Character	Message end character	binary	0x0d	CR	

4.5.29 Identify Request

After receiving the Identify Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Identify Request from the host is shown below.

identify␣S␣0000␣00␣NC␣↲

Table 4-90 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	identify		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.30 Date Setting Request

After receiving the Date Setting Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Date Setting Request from the host is shown below.

s_date␣S␣0000␣00␣NC␣20190711145000␣↲

Table 4-91 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_date		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Timestamp	Timestamp	string	YYYYMMDDHHMMSS	Date (four-digit year)	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.31 Reboot Request

Upon receiving Reboot Request, the ATND-1061 reboots by itself.

[1] Set Command

The command format of the Reboot Request from the host is shown below.

reboot␣S␣0000␣00␣NC␣↲

Table 4-92 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	reboot		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.32 Device ID Change Request

After receiving the Device ID Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Device ID Change Request from the host is shown below.

s_deviceid␣S␣0000␣00␣NC␣08␣↲

Table 4-93 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_deviceid		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Device ID	Device ID	string	00 to FF	Device ID	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.33 Device ID Acquisition Request

After receiving the Device ID Acquisition Request, the ATND-1061 sends the header color settings to the host via Answer.

[1] Get Command

The command of the Device ID Acquisition Request from the host is shown below

g_deviceid␣O␣0000␣00␣NC␣↲

Table 4-94 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_deviceid		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below

g_deviceid␣0000␣00␣NC␣08␣↲

Table 4-95 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_deviceid		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Device ID	Device ID	string	00 to FF	Device ID	
6	End Character	Message end character	binary	0x0d	CR	

4.5.34 Preset Number Acquisition Request

After receiving the Preset Number Acquisition Request, the ATND-1061 sends the preset bank number to the host via Answer.

[1] Get Command

The command of the Preset Number Acquisition Request from the host is shown below

g_preset_number␣O␣0000␣00␣NC␣↲

Table 4-96 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_preset_number		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below

g_preset_number␣0000␣00␣NC␣16␣↲

Table 4-97 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_preset_number		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Bank Number	Bank number	string	1 to 16	Bank 1 to 16	
6	End Character	Message end character	binary	0x0d	CR	

4.5.35 External Control Setting Change Request

After receiving the External Control Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the External Control Setting Change Request from the host is shown below.

s_remotecontrol␣S␣0000␣00␣NC␣1,1,1,2,2␣↲

Table 4-98 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_remotecontrol		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Remote Controller				IR remote controller setting	
	Power	Power Save Mode	string	0	Not use	
				1	Use	
	Mute	Mute	string	0	Not use	
				1	Use	
	Preset	Preset Recall Link	string	0	Not use	
				1	Use	
	GPI				GPI setting	
	Port 1	GPI port 1	string	0	Power Save Mode	
				1	Mute	
				2	Reboot	
	Port 2	GPI port 2	string	0 to 2		Same as GPI Port 1
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.36 External Control Setting Acquisition Request

After receiving the External Control Setting Acquisition Request, the ATND-1061 sends the header color settings to the host via Answer.

[1] Get Command

The command of the External Control Setting Acquisition Request from the host is shown below

g_remotecontrol␣O␣0000␣00␣NC␣↲

Table 4-99 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_remotecontrol		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below

g_remotecontrol␣0000␣00␣NC␣1,1,1,2,2␣↲

Table 4-100 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_remotecontrol		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Remote Controller				IR remote controller setting	
	Power	Power Save Mode	string	0	Not use	
				1	Use	
	Mute	Mute	string	0	Not use	
				1	Use	
	Preset	Preset Recall Link	string	0	Not use	
				1	Use	
	GPI				GPI setting	
	Port 1	GPI port 1	string	0	Power Save Mode	
				1	Mute	
				2	Reboot	
	Port 2	GPI port 2	string	0 to 2		Same as GPI Port 1
6	End Character	Message end character	binary	0x0d	CR	

4.5.37 Device Interlock Setting Change Request

After receiving the Device Interlock Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Device Interlock Setting Change Request from the host is shown below.

s_synccontrol␣S␣0000␣00␣NC␣1,1,1,254,31␣↲

Table 4-101 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_synccontrol		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Power	Power Save Mode	string	0	Not interlocked	
				1	Interlocked	
	Mute	Mute	string	0	Not interlocked	
				1	Interlocked	
	Preset	Preset Recall Link	string	0	Not interlocked	
				1	Interlocked	
	Group	Group ID	string	0 to 254	Interlock group ID	
	Internal	Internal ID	string	0 to 31	ID within the group	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.38 Device Interlock Setting Acquisition Request

After receiving the Device Interlock Setting Acquisition Request, the ATND-1061 sends the header color settings to the host via Answer.

[1] Get Command

The command of the Device Interlock Setting Acquisition Request from the host is shown below

g_synccontrol␣O␣0000␣00␣NC␣↲

Table 4-102 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_synccontrol		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below

g_synccontrol␣0000␣00␣NC␣1,1,1,254,31␣↲

Table 4-103 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_synccontrol		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Power	Power Save Mode	string	0	Not interlocked	
				1	Interlocked	
	Mute	Mute	string	0	Not interlocked	
				1	Interlocked	
	Preset	Preset Recall Link	string	0	Not interlocked	
				1	Interlocked	
	Group	Group ID	string	0 to 254	Interlock group ID	
	Internal	Internal ID	string	0 to 31	ID within the group	
6	End Character	Message end character	binary	0x0d	CR	

4.5.39 Audio System Setting Change Request

After receiving the Audio System Setting Change Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Audio System Setting Change Request from the host is shown below.

s_audio_system␣S␣0000␣00␣NC␣,,,,1,2␣↲

Table 4-104 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_audio_system		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Gain Unit Type	Gain unit	string			Not used
	Delay Unit Type	Delay unit	string			Not used
	Input EQ/DYN	EQ/Dyn indication setting for the input channel	string			Not used
	Virtual Mic Mode	Virtual Mic mode	string			Not used
	Tx6	Dante Tx#6 Signal	string	0	Automix	
				1	Separate 5	
	Beam Sensitivity	Beam Sensitivity	string	0	Low	
				1	Mid	
				2	High	
	Auto Attenuation	Auto Attenuation	string	0	Disable	
				1	Enable	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.40 Audio System Setting Acquisition Request

After receiving the Audio System Setting Acquisition Request, the ATND-1061 sends the audio system settings to the host via Answer.

[1] Get Command

The command of the Audio System Setting Acquisition Request from the host is shown below

g_audio_system␣O␣0000␣00␣NC␣↲

Table 4-105 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_audio_system		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below

g_audio_system␣0000␣00␣NC␣,,,,1,2␣↲

Table 4-106 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_audio_system		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Gain Unit Type	Gain unit	string			Not used
	Delay Unit Type	Delay unit	string			Not used
	Input EQ/DYN	EQ/Dyn indication setting for the input channel	string			Not used
	Virtual Mic Mode	Virtual Mic mode	string			Not used
	Tx6	Dante Tx#6 Signal	string	0	Automix	
				1	Separate 5	
	Beam Sensitivity	Beam Sensitivity	string	0	Low	
				1	Mid	
				2	High	
	Auto Attenuation	Auto Attenuation	string	0	Disable	
				1	Enable	
6	End Character	Message end character	binary	0x0d	CR	

4.5.41 Power Save Mode Request

Upon receiving Power Save Mode Request, the ATND-1061 reboots by itself.

[1] Set Command

The command format of the Power Save Mode Request from the host is shown below.

s_powersave␣S␣0000␣00␣NC␣1␣↲

Table 4-107 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_powersave		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter	-	-	No parameter	
	mode	Power Save Mode	string	0	Power save mode is canceled.	
				1	Power save mode is enabled.	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.42 Device Mute Request

After receiving the Device Mute Request, the ATND-1061 sends the processing results to the host via ACK or NAK.

[1] Set Command

The command format of the Device Mute Request from the host is shown below.

s_mute␣S␣0000␣00␣NC␣1␣↲

Table 4-108 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	s_mute		
2	HandShake Select	Sequence execution method	string	S		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Mute	Mute	string	0	Without muting	
				1	With muting	
7	End Character	Message end character	binary	0x0d	CR	

[2] ACK/NAK

See Factory Default Setting Request [2].

4.5.43 Device Mute Status Acquisition Request

After receiving the Device Mute Status Acquisition Request, the ATND-1061 sends the device mute status to the host via Answer.

[1] Set Command

The command format of the Device Mute Status Acquisition Request from the host is shown below.

g_mute␣O␣0000␣00␣NC␣↲

Table 4-109 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_mute		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter		-	-	None
7	End Character	Message end character	binary	0x0d	CR	

[2] Answer

The Answer command format from the ATND-1061 is shown below

g_mute␣0000␣00␣NC␣1␣↲

Table 4-110 Answer Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	g_audio_system		
2	Model ID	Not used	string	0000	Not used	
3	Unit No	Device ID	string	00 to FF	Device ID	
4	Continue Select	Message split method	string	NC	No split	
5	Parameter	Parameter				
	Mute	Mute	string	0	Without muting	
				1	With muting	
6	End Character	Message end character	binary	0x0d	CR	

5 UDP Communications

The information (status change notification) from the ATND-1061 is sent via UDP protocol.

5.1 Communication Control

For details on the communication control flow, see Chapter 4.1.

5.1.1 Communication Start

The host registers groups to the multicast address.

Table 5-1 Communication Control Parameters

No	Name	Default Setting	Remarks
1.	IPAddress	239.000.000.100	Multicast address
2.	Port No	17000	

5.1.2 Control Sequence

5.1.2.1 Information

If the ATND-1061 status changes, a status change notification is sent.

<Example> The sequence of conference status notification is shown below.

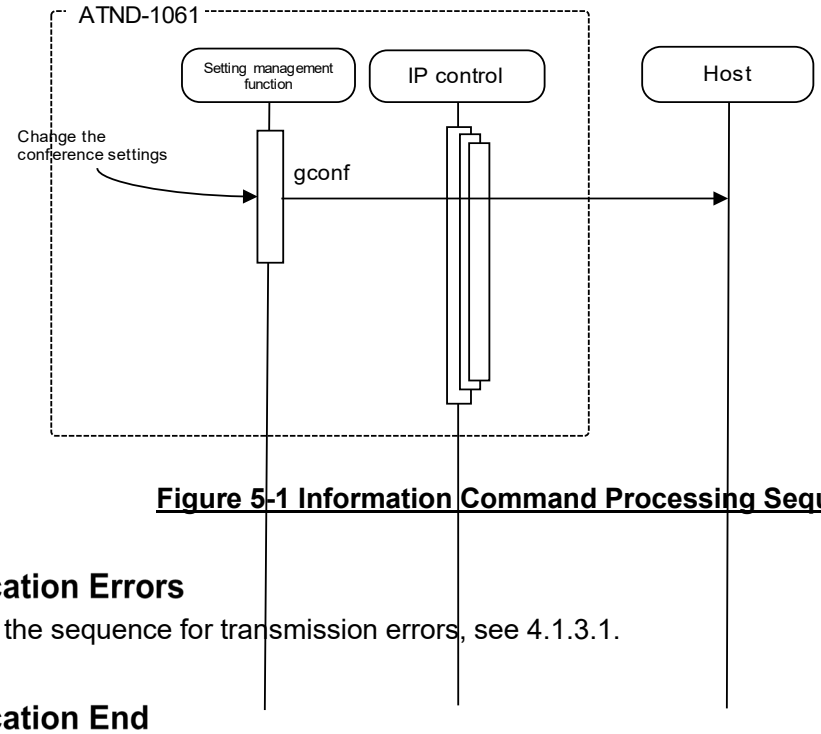

Figure 5-1 Information Command Processing Sequence

5.1.3 Communication Errors

For details on the sequence for transmission errors, see 4.1.3.1.

5.1.4 Communication End

The host can unregister groups at any timing.

5.2 Command Details

5.2.1 Level Meter Notice

A Level Meter Notice is sent periodically from the ATND-1061.
It is reported at the interval set in the Level Meter Notification Interval Change Request. (The default is 100 msec.)
It is not sent when IP Control Setting-Audio Level Notification is 0 (not used) in the network setting.

MD␣level_meter_notice␣0000␣00␣NC␣1,2,3,4,5,6,1,,,,,,1,2,,,,,,,,1,,,,,,,,,1,2,3,4,5,6,,,,␣↲

Table 5-2 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	level_meter_notice		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Device ID	string	00 to FF	Device ID	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Post Fader Meter					
	Level 0	Beam Channel 1	string	0 to 61	Level Meter of Beam Channel 1	
	Level 1	Beam Channel 2	string	0 to 61	Level Meter of Beam Channel 2	
	Level 2	Beam Channel 3	string	0 to 61	Level Meter of Beam Channel 3	
	Level 3	Beam Channel 4	string	0 to 61	Level Meter of Beam Channel 4	
	Level 4	Beam Channel 5	string	0 to 61	Level Meter of Beam Channel 5	
	Level 5	Beam Channel 6	string	0 to 61	Level Meter of Beam Channel 6	
	Level 6	Analog Input	string	0 to 61		
	Level 7		string			
	Level 8		string			
	Level 9		string			
	Level 10		string			
	Level 11		string			
	Level 12	Analog Out	string	0 to 61	Level Meter of Analog Output	
	Level 13	Auto Mix	string	0 to 61	Level Meter of Auto Mix	

No	Item	Description	Type	Value	Value Description	Remarks
	Level 14					
	Level 15					
	Level 16					
	Level 17					
	Level 18					
	Level 19					
	Level 20					
	Level 21					
	AEC(ERL) Meter					
	Level 22	AEC(ERL)	string	0 to 60	Level Meter of AEC (ERL)	
	Level 23					
	Level 24					
	Level 25					
	Level 26					
	Level 27					
	Level 28					
	Level 29					
	Level 30					
	Level 31					
	Gainshare Meter					
	Level 32	Beam Channel 1	string	0 to 15	Level Meter of Beam Channel 1	
	Level 33	Beam Channel 2	string	0 to 15	Level Meter of Beam Channel 2	
	Level 34	Beam Channel 3	string	0 to 15	Level Meter of Beam Channel 3	
	Level 35	Beam Channel 4	string	0 to 15	Level Meter of Beam Channel 4	
	Level 36	Beam Channel 5	string	0 to 15	Level Meter of Beam Channel 5	
	Level 37	Beam Channel 6	string	0 to 15	Level Meter of Beam Channel 6	
	Level 38					
	Level 39					
	Level 40					
	Level 41					
7	End Character	Message end	binary	0x0d	CR	

No	Item	Description	Type	Value	Value Description	Remarks
		character				

5.2.2Input Gain Level Setting Notice

When the Gain&Level setting of the input channel is changed from the ATND-1061, an Input Gain Level Setting Notice will be sent.
It is not sent when IP Control Setting Notification is 0 (not used) in the network setting.

MD␣input_gain_level_notice␣0000␣00␣NC␣6,40,40,511,1␣↲

Table 5-3 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	input_gain_level_notice		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Device ID	string	00 to FF	Device ID	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Input Channel Select	Input channel selection	string	0 to 5	Input Channel 1 to 6	
				6	Analog	
	gain					
	Mic	Mic gain	string	0 to 40	+20db to +60db	See 6.5 Input Gain Table.
	Line	Line gain	string	0 to 40	-20dBu to -60dBu	See 6.5 Input Gain Table.
	Level	Level	string	0 to 511	-120 to +10db	See 6.1 Fader Table.
	Mute	Mute	string	0	Without muting	
				1	With muting	
7	End Character	Message end character	binary	0x0d	CR	

5.2.3 Output Level Setting Notice

When the level setting of the output channel is changed from the ATND-1061, an Output Level Setting Notice will be sent.

It is not sent when IP Control Setting Notification is 0 (not used) in the network setting.

MD␣output_level_notice␣0000␣00␣NC␣0,511␣↲

Table 5-4 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	output_level_notice		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Device ID	string	00 to FF	Device ID	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
	Level	Level	string	0 to 511	-120 to +10db	See 6.1 Fader Table.
7	End Character	Message end character	binary	0x0d	CR	

5.2.4Output Mute Setting Notice

When the mute setting of the output channel is changed from the ATND-1061, an Output Mute Setting Notice will be given.
It is not sent when IP Control Setting Notification is 0 (not used) in the network setting.

MD␣output_mute_notice␣0000␣00␣NC␣0,1␣↲

Table 5-5 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	output_mute_notice		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Device ID	string	00 to FF	Device ID	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Output Channel Select	Output channel selection	string	0	Analog Out	
				1	Auto Mix	
	Mute	Mute	string	0	Without muting	
				1	With muting	
7	End Character	Message end character	binary	0x0d	CR	

5.2.5 Preset Call Notice

Preset Call Notice is sent when a preset call is made from the ATND-1061.
It is not sent when IP Control Setting Notification is 0 (not used) in the network setting.

MD␣recall_preset_notice␣0000␣00␣NC␣1␣↲

Table 5-6 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	recall_preset_notice		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Device ID	string	00 to FF	Device ID	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Bank Number	Bank number	string	1 to 16	Bank 1 to 16	
7	End Character	Message end character	binary	0x0d	CR	

5.2.6 Speaker Location Notification

A Speaker Location Notification is sent periodically from the ATND-1061.
It is reported at the interval set in the Speaker Location Notification Interval Change Request. (The default is 100 msec.)
It is not sent when IP Control Setting Camera Control Notification is 0 (not used) in the network setting.

MD␣camera_control_notice␣0000␣00␣NC␣1,5,90,360,15␣↲

Table 5-7 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	camera_control_notice		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Status	Status	string	0	Not in a state of speaking	
				1	In a state of speaking	
	Channel	Channel	string	0 to 5	Beam Channel 1 to 6	Enabled when Status is 1
				Omitted	Out of range	
	Angle	Elevation angle	string	0 to 90		
	Rotate	Rotation angle	string	0 to 360		
	CameraNo	Camera area number	string	0	No camera area	
				1 to 15	Camera area number	
7	End Character	Message end character	binary	0x0d	CR	

5.2.7 Power Save Mode Notice

When the status of power save mode of the ATND-1061 is changed, Power Save Mode Notice will be sent.
It is not sent when IP Control Setting Notification is 0 (not used) in the network setting.

MD␣powersave_notice␣0000␣00␣NC␣1␣↲

Table 5-8 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Command	Command string	string	powersave_notice		
2	HandShake Select	Sequence execution method	string	O		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Not used	string	00	Not used	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	mode	Power Save Mode	string	0	Power save mode canceled	
				1	Power save mode	
7	End Character	Message end character	binary	0x0d	CR	

5.2.8 Device Mute Notice

When the device mute status is changed from the ATND-1061, Device Mute Notice will be given.
It is not sent when IP Control Setting Notification is 0 (not used) in the network setting.

MD␣mute_notice␣0000␣00␣NC␣1␣↲

Table 5-9 Command Format

No	Item	Description	Type	Value	Value Description	Remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	mute_notice		
3	Model ID	Not used	string	0000	Not used	
4	Unit No	Device ID	string	00 to FF	Device ID	
5	Continue Select	Message split method	string	NC	No split	
6	Parameter	Parameter				
	Mute	Mute	string	0	Without muting	
				1	With muting	
7	End Character	Message end character	binary	0x0d	CR	

6 Appendix

6.1 Fader Table

Value	Data[dB]	Value	Data[dB]	Value	Data[dB]	Value	Data[dB]	Value	Data[dB]	Value	Data[dB]	Value	Data[dB]	Value	Data[dB]
0	-Infinity	64	-63.5	128	-36.6	192	-23.8	256	-15.5	320	-9.1	384	-2.7	448	3.7
1	-120.0	65	-63.0	129	-36.4	193	-23.6	257	-15.4	321	-9.0	385	-2.6	449	3.8
2	-118.0	66	-62.5	130	-36.2	194	-23.4	258	-15.3	322	-8.9	386	-2.5	450	3.9
3	-116.0	67	-62.0	131	-36.0	195	-23.2	259	-15.2	323	-8.8	387	-2.4	451	4.0
4	-114.0	68	-61.5	132	-35.8	196	-23.0	260	-15.1	324	-8.7	388	-2.3	452	4.1
5	-112.0	69	-61.0	133	-35.6	197	-22.8	261	-15.0	325	-8.6	389	-2.2	453	4.2
6	-110.0	70	-60.5	134	-35.4	198	-22.6	262	-14.9	326	-8.5	390	-2.1	454	4.3
7	-108.0	71	-60.0	135	-35.2	199	-22.4	263	-14.8	327	-8.4	391	-2.0	455	4.4
8	-106.0	72	-59.5	136	-35.0	200	-22.2	264	-14.7	328	-8.3	392	-1.9	456	4.5
9	-104.0	73	-59.0	137	-34.8	201	-22.0	265	-14.6	329	-8.2	393	-1.8	457	4.6
10	-102.0	74	-58.5	138	-34.6	202	-21.8	266	-14.5	330	-8.1	394	-1.7	458	4.7
11	-100.0	75	-58.0	139	-34.4	203	-21.6	267	-14.4	331	-8.0	395	-1.6	459	4.8
12	-99.0	76	-57.5	140	-34.2	204	-21.4	268	-14.3	332	-7.9	396	-1.5	460	4.9
13	-98.0	77	-57.0	141	-34.0	205	-21.2	269	-14.2	333	-7.8	397	-1.4	461	5.0
14	-97.0	78	-56.5	142	-33.8	206	-21.0	270	-14.1	334	-7.7	398	-1.3	462	5.1
15	-96.0	79	-56.0	143	-33.6	207	-20.8	271	-14.0	335	-7.6	399	-1.2	463	5.2
16	-95.0	80	-55.5	144	-33.4	208	-20.6	272	-13.9	336	-7.5	400	-1.1	464	5.3
17	-94.0	81	-55.0	145	-33.2	209	-20.4	273	-13.8	337	-7.4	401	-1.0	465	5.4
18	-93.0	82	-54.5	146	-33.0	210	-20.2	274	-13.7	338	-7.3	402	-0.9	466	5.5
19	-92.0	83	-54.0	147	-32.8	211	-20.0	275	-13.6	339	-7.2	403	-0.8	467	5.6
20	-91.0	84	-53.5	148	-32.6	212	-19.9	276	-13.5	340	-7.1	404	-0.7	468	5.7
21	-90.0	85	-53.0	149	-32.4	213	-19.8	277	-13.4	341	-7.0	405	-0.6	469	5.8
22	-89.0	86	-52.5	150	-32.2	214	-19.7	278	-13.3	342	-6.9	406	-0.5	470	5.9
23	-88.0	87	-52.0	151	-32.0	215	-19.6	279	-13.2	343	-6.8	407	-0.4	471	6.0
24	-87.0	88	-51.5	152	-31.8	216	-19.5	280	-13.1	344	-6.7	408	-0.3	472	6.1
25	-86.0	89	-51.0	153	-31.6	217	-19.4	281	-13.0	345	-6.6	409	-0.2	473	6.2
26	-85.0	90	-50.5	154	-31.4	218	-19.3	282	-12.9	346	-6.5	410	-0.1	474	6.3
27	-84.0	91	-50.0	155	-31.2	219	-19.2	283	-12.8	347	-6.4	411	0.0	475	6.4
28	-83.0	92	-49.5	156	-31.0	220	-19.1	284	-12.7	348	-6.3	412	0.1	476	6.5
29	-82.0	93	-49.0	157	-30.8	221	-19.0	285	-12.6	349	-6.2	413	0.2	477	6.6
30	-81.0	94	-48.5	158	-30.6	222	-18.9	286	-12.5	350	-6.1	414	0.3	478	6.7
31	-80.0	95	-48.0	159	-30.4	223	-18.8	287	-12.4	351	-6.0	415	0.4	479	6.8
32	-79.5	96	-47.5	160	-30.2	224	-18.7	288	-12.3	352	-5.9	416	0.5	480	6.9
33	-79.0	97	-47.0	161	-30.0	225	-18.6	289	-12.2	353	-5.8	417	0.6	481	7.0
34	-78.5	98	-46.5	162	-29.8	226	-18.5	290	-12.1	354	-5.7	418	0.7	482	7.1
35	-78.0	99	-46.0	163	-29.6	227	-18.4	291	-12.0	355	-5.6	419	0.8	483	7.2
36	-77.5	100	-45.5	164	-29.4	228	-18.3	292	-11.9	356	-5.5	420	0.9	484	7.3
37	-77.0	101	-45.0	165	-29.2	229	-18.2	293	-11.8	357	-5.4	421	1.0	485	7.4
38	-76.5	102	-44.5	166	-29.0	230	-18.1	294	-11.7	358	-5.3	422	1.1	486	7.5
39	-76.0	103	-44.0	167	-28.8	231	-18.0	295	-11.6	359	-5.2	423	1.2	487	7.6
40	-75.5	104	-43.5	168	-28.6	232	-17.9	296	-11.5	360	-5.1	424	1.3	488	7.7
41	-75.0	105	-43.0	169	-28.4	233	-17.8	297	-11.4	361	-5.0	425	1.4	489	7.8
42	-74.5	106	-42.5	170	-28.2	234	-17.7	298	-11.3	362	-4.9	426	1.5	490	7.9
43	-74.0	107	-42.0	171	-28.0	235	-17.6	299	-11.2	363	-4.8	427	1.6	491	8.0
44	-73.5	108	-41.5	172	-27.8	236	-17.5	300	-11.1	364	-4.7	428	1.7	492	8.1
45	-73.0	109	-41.0	173	-27.6	237	-17.4	301	-11.0	365	-4.6	429	1.8	493	8.2
46	-72.5	110	-40.5	174	-27.4	238	-17.3	302	-10.9	366	-4.5	430	1.9	494	8.3
47	-72.0	111	-40.0	175	-27.2	239	-17.2	303	-10.8	367	-4.4	431	2.0	495	8.4
48	-71.5	112	-39.8	176	-27.0	240	-17.1	304	-10.7	368	-4.3	432	2.1	496	8.5
49	-71.0	113	-39.6	177	-26.8	241	-17.0	305	-10.6	369	-4.2	433	2.2	497	8.6
50	-70.5	114	-39.4	178	-26.6	242	-16.9	306	-10.5	370	-4.1	434	2.3	498	8.7
51	-70.0	115	-39.2	179	-26.4	243	-16.8	307	-10.4	371	-4.0	435	2.4	499	8.8
52	-69.5	116	-39.0	180	-26.2	244	-16.7	308	-10.3	372	-3.9	436	2.5	500	8.9
53	-69.0	117	-38.8	181	-26.0	245	-16.6	309	-10.2	373	-3.8	437	2.6	501	9.0
54	-68.5	118	-38.6	182	-25.8	246	-16.5	310	-10.1	374	-3.7	438	2.7	502	9.1
55	-68.0	119	-38.4	183	-25.6	247	-16.4	311	-10.0	375	-3.6	439	2.8	503	9.2
56	-67.5	120	-38.2	184	-25.4	248	-16.3	312	-9.9	376	-3.5	440	2.9	504	9.3
57	-67.0	121	-38.0	185	-25.2	249	-16.2	313	-9.8	377	-3.4	441	3.0	505	9.4
58	-66.5	122	-37.8	186	-25.0	250	-16.1	314	-9.7	378	-3.3	442	3.1	506	9.5
59	-66.0	123	-37.6	187	-24.8	251	-16.0	315	-9.6	379	-3.2	443	3.2	507	9.6
60	-65.5	124	-37.4	188	-24.6	252	-15.9	316	-9.5	380	-3.1	444	3.3	508	9.7
61	-65.0	125	-37.2	189	-24.4	253	-15.8	317	-9.4	381	-3.0	445	3.4	509	9.8
62	-64.5	126	-37.0	190	-24.2	254	-15.7	318	-9.3	382	-2.9	446	3.5	510	9.9
63	-64.0	127	-36.8	191	-24.0	255	-15.6	319	-9.2	383	-2.8	447	3.6	511	10.0

6.2 Frequency Table

value	Frequency [Hz]	Display	value	Frequency [Hz]	Display	value	Frequency [Hz]	Display	value	Frequency [Hz]	Display	value	Frequency [Hz]	Display	value	Frequency [Hz]	Display
0	20	20.0 Hz	80	63	63.0 Hz	160	200	200 Hz	240	630	630 Hz	320	2000	2.00 kHz	400	6300	6.30 kHz
1	20.3	20.3 Hz	81	64	64.0 Hz	161	203	203 Hz	241	642	642 Hz	321	2030	2.03 kHz	401	6420	6.42 kHz
2	20.5	20.5 Hz	82	65	65.0 Hz	162	205	205 Hz	242	655	655 Hz	322	2050	2.05 kHz	402	6550	6.55 kHz
3	20.7	20.7 Hz	83	67	67.0 Hz	163	207	207 Hz	243	667	667 Hz	323	2080	2.08 kHz	403	6670	6.67 kHz
4	21	21.0 Hz	84	68	68.0 Hz	164	210	210 Hz	244	680	680 Hz	324	2100	2.10 kHz	404	6800	6.80 kHz
5	21.3	21.3 Hz	85	68.5	68.5 Hz	165	213	213 Hz	245	687	687 Hz	325	2140	2.14 kHz	405	6880	6.88 kHz
6	21.5	21.5 Hz	86	69	69.0 Hz	166	217	217 Hz	246	695	695 Hz	326	2170	2.17 kHz	406	6950	6.95 kHz
7	21.7	21.7 Hz	87	70	70.0 Hz	167	220	220 Hz	247	703	703 Hz	327	2200	2.20 kHz	407	7030	7.03 kHz
8	22	22.0 Hz	88	71	71.0 Hz	168	224	224 Hz	248	710	710 Hz	328	2240	2.24 kHz	408	7100	7.10 kHz
9	22.5	22.5 Hz	89	72	72.0 Hz	169	228	228 Hz	249	722	722 Hz	329	2280	2.28 kHz	409	7220	7.22 kHz
10	23	23.0 Hz	90	73	73.0 Hz	170	232	232 Hz	250	735	735 Hz	330	2320	2.32 kHz	410	7350	7.35 kHz
11	23.5	23.5 Hz	91	75	75.0 Hz	171	236	236 Hz	251	747	747 Hz	331	2360	2.36 kHz	411	7470	7.47 kHz
12	24	24.0 Hz	92	76	76.0 Hz	172	240	240 Hz	252	760	760 Hz	332	2400	2.40 kHz	412	7600	7.60 kHz
13	24.2	24.2 Hz	93	77	77.0 Hz	173	242	242 Hz	253	770	770 Hz	333	2430	2.43 kHz	413	7700	7.70 kHz
14	24.5	24.5 Hz	94	78	78.0 Hz	174	245	245 Hz	254	780	780 Hz	334	2450	2.45 kHz	414	7800	7.80 kHz
15	24.7	24.7 Hz	95	79	79.0 Hz	175	247	247 Hz	255	790	790 Hz	335	2470	2.47 kHz	415	7900	7.90 kHz
16	25	25.0 Hz	96	80	80.0 Hz	176	250	250 Hz	256	800	800 Hz	336	2500	2.50 kHz	416	8000	8.00 kHz
17	25.5	25.5 Hz	97	81	81.0 Hz	177	255	255 Hz	257	812	812 Hz	337	2550	2.55 kHz	417	8120	8.12 kHz
18	26	26.0 Hz	98	82	82.0 Hz	178	260	260 Hz	258	825	825 Hz	338	2600	2.60 kHz	418	8250	8.25 kHz
19	26.5	26.5 Hz	99	83	83.0 Hz	179	265	265 Hz	259	837	837 Hz	339	2650	2.65 kHz	419	8370	8.37 kHz
20	27	27.0 Hz	100	85	85.0 Hz	180	270	270 Hz	260	850	850 Hz	340	2700	2.70 kHz	420	8500	8.50 kHz
21	27.2	27.2 Hz	101	86	86.0 Hz	181	272	272 Hz	261	862	862 Hz	341	2730	2.73 kHz	421	8620	8.62 kHz
22	27.5	27.5 Hz	102	87	87.0 Hz	182	275	275 Hz	262	875	875 Hz	342	2750	2.75 kHz	422	8750	8.75 kHz
23	27.7	27.7 Hz	103	89	89.0 Hz	183	278	278 Hz	263	887	887 Hz	343	2770	2.77 kHz	423	8870	8.87 kHz
24	28	28.0 Hz	104	90	90.0 Hz	184	280	280 Hz	264	900	900 Hz	344	2800	2.80 kHz	424	9000	9.00 kHz
25	28.5	28.5 Hz	105	92	92.0 Hz	185	285	285 Hz	265	915	915 Hz	345	2850	2.85 kHz	425	9150	9.15 kHz
26	29	29.0 Hz	106	93	93.0 Hz	186	290	290 Hz	266	930	930 Hz	346	2900	2.90 kHz	426	9300	9.30 kHz
27	29.5	29.5 Hz	107	95	95.0 Hz	187	295	295 Hz	267	945	945 Hz	347	2950	2.95 kHz	427	9450	9.45 kHz
28	30	30.0 Hz	108	96	96.0 Hz	188	300	300 Hz	268	960	960 Hz	348	3000	3.00 kHz	428	9600	9.60 kHz
29	30.5	30.5 Hz	109	97	97.0 Hz	189	304	304 Hz	269	970	970 Hz	349	3040	3.04 kHz	429	9700	9.70 kHz
30	31	31.0 Hz	110	98	98.0 Hz	190	307	307 Hz	270	980	980 Hz	350	3070	3.07 kHz	430	9800	9.80 kHz
31	31.2	31.2 Hz	111	99	99.0 Hz	191	311	311 Hz	271	990	990 Hz	351	3110	3.11 kHz	431	9900	9.90 kHz
32	31.5	31.5 Hz	112	100	100 Hz	192	315	315 Hz	272	1000	1.00 kHz	352	3150	3.15 kHz	432	10000	10.0 kHz
33	32	32.0 Hz	113	101	101 Hz	193	321	321 Hz	273	1010	1.01 kHz	353	3210	3.21 kHz	433	10100	10.1 kHz
34	33	33.0 Hz	114	102	102 Hz	194	327	327 Hz	274	1020	1.02 kHz	354	3270	3.27 kHz	434	10300	10.3 kHz
35	33.5	33.5 Hz	115	103	103 Hz	195	333	333 Hz	275	1030	1.03 kHz	355	3340	3.34 kHz	435	10400	10.4 kHz
36	34	34.0 Hz	116	105	105 Hz	196	340	340 Hz	276	1050	1.05 kHz	356	3400	3.40 kHz	436	10500	10.5 kHz
37	34.5	34.5 Hz	117	106	106 Hz	197	344	344 Hz	277	1070	1.07 kHz	357	3440	3.44 kHz	437	10700	10.7 kHz
38	35	35.0 Hz	118	107	107 Hz	198	347	347 Hz	278	1080	1.08 kHz	358	3470	3.47 kHz	438	10900	10.9 kHz
39	35.5	35.5 Hz	119	108	108 Hz	199	351	351 Hz	279	1100	1.10 kHz	359	3510	3.51 kHz	439	11100	11.1 kHz
40	36	36.0 Hz	120	110	110 Hz	200	355	355 Hz	280	1120	1.12 kHz	360	3550	3.55 kHz	440	11200	11.2 kHz
41	36.5	36.5 Hz	121	112	112 Hz	201	361	361 Hz	281	1140	1.14 kHz	361	3610	3.61 kHz	441	11400	11.4 kHz
42	37	37.0 Hz	122	115	115 Hz	202	367	367 Hz	282	1160	1.16 kHz	362	3670	3.67 kHz	442	11600	11.6 kHz
43	37.5	37.5 Hz	123	118	118 Hz	203	374	374 Hz	283	1180	1.18 kHz	363	3750	3.75 kHz	443	11800	11.8 kHz
44	38	38.0 Hz	124	120	120 Hz	204	380	380 Hz	284	1200	1.20 kHz	364	3800	3.80 kHz	444	12000	12.0 kHz
45	38.5	38.5 Hz	125	121	121 Hz	205	385	385 Hz	285	1210	1.21 kHz	365	3850	3.85 kHz	445	12200	12.2 kHz
46	39	39.0 Hz	126	122	122 Hz	206	390	390 Hz	286	1220	1.22 kHz	366	3900	3.90 kHz	446	12300	12.3 kHz
47	39.5	39.5 Hz	127	123	123 Hz	207	395	395 Hz	287	1240	1.24 kHz	367	3950	3.95 kHz	447	12400	12.4 kHz
48	40	40.0 Hz	128	125	125 Hz	208	400	400 Hz	288	1250	1.25 kHz	368	4000	4.00 kHz	448	12500	12.5 kHz
49	40.5	40.5 Hz	129	127	127 Hz	209	408	408 Hz	289	1280	1.28 kHz	369	4070	4.07 kHz	449	12800	12.8 kHz
50	41	41.0 Hz	130	130	130 Hz	210	415	415 Hz	290	1300	1.30 kHz	370	4150	4.15 kHz	450	13000	13.0 kHz
51	42	42.0 Hz	131	133	133 Hz	211	422	422 Hz	291	1330	1.33 kHz	371	4220	4.22 kHz	451	13300	13.3 kHz
52	43	43.0 Hz	132	136	136 Hz	212	430	430 Hz	292	1360	1.36 kHz	372	4300	4.30 kHz	452	13600	13.6 kHz
53	43.5	43.5 Hz	133	137	137 Hz	213	435	435 Hz	293	1370	1.37 kHz	373	4350	4.35 kHz	453	13700	13.7 kHz
54	44	44.0 Hz	134	138	138 Hz	214	440	440 Hz	294	1380	1.38 kHz	374	4400	4.40 kHz	454	13800	13.8 kHz
55	44.5	44.5 Hz	135	139	139 Hz	215	445	445 Hz	295	1390	1.39 kHz	375	4450	4.45 kHz	455	13900	13.9 kHz
56	45	45.0 Hz	136	140	140 Hz	216	450	450 Hz	296	1400	1.40 kHz	376	4500	4.50 kHz	456	14000	14.0 kHz
57	45.5	45.5 Hz	137	143	143 Hz	217	457	457 Hz	297	1430	1.43 kHz	377	4570	4.57 kHz	457	14300	14.3 kHz
58	46	46.0 Hz	138	146	146 Hz	218	465	465 Hz	298	1460	1.46 kHz	378	4650	4.65 kHz	458	14600	14.6 kHz
59	47	47.0 Hz	139	149	149 Hz	219	472	472 Hz	299	1490	1.49 kHz	379	4730	4.73 kHz	459	14900	14.9 kHz
60	48	48.0 Hz	140	152	152 Hz	220	480	480 Hz	300	1520	1.52 kHz	380	4800	4.80 kHz	460	15200	15.2 kHz
61	48.5	48.5 Hz	141	154	154 Hz	221	485	485 Hz	301	1540	1.54 kHz	381	4850	4.85 kHz	461	15400	15.4 kHz
62	49	49.0 Hz	142	156	156 Hz	222	490	490 Hz	302	1560	1.56 kHz	382	4900	4.90 kHz	462	15600	15.6 kHz
63	49.5	49.5 Hz	143	158	158 Hz	223	495	495 Hz	303	1580	1.58 kHz	383	4950	4.95 kHz	463	15800	15.8 kHz
64	50	50.0 Hz	144	160	160 Hz	224	500	500 Hz	304	1600	1.60 kHz	384	5000	5.00 kHz	464	16000	16.0 kHz
65	50.5	50.5 Hz	145	162	162 Hz	225	507	507 Hz	305	1630	1.63 kHz	385	5080	5.08 kHz	465	16300	16.3 kHz
66	51	51.0 Hz	146	165	165 Hz	226	515	515 Hz	306	1650	1.65 kHz	386	5150	5.15 kHz	466	16500	16.5 kHz
67	52	52.0 Hz	147	167	167 Hz	227	522	522 Hz	307	1680	1.68 kHz	387	5220	5.22 kHz	467	16800	16.8 kHz
68	53	53.0 Hz	148	170	170 Hz	228	530	530 Hz	308	1700	1.70 kHz	388	5300	5.30 kHz	468	17000	17.0 kHz
69	53.5	53.5 Hz	149	172	172 Hz	229	538	538 Hz	309	1730	1.73 kHz	389	5380	5.38 kHz	469	17300	17.3 kHz
70	54	54.0 Hz	150	175	175 Hz	230	545	545 Hz	310	1750	1.75 kHz	390	5450	5.45 kHz	470	17500	17.5 kHz
71	55	55.0 Hz	151	177	177 Hz	231	552	552 Hz	311	1780	1.78 kHz	391	5530	5.53 kHz	471	17800	17.8 kHz
72	56	56.0 Hz	152	180	180 Hz	232	560	560 Hz	312	1800	1.80 kHz	392	5600	5.60 kHz	472	18000	18.0 kHz
73	57	57.0 Hz	153	183	183 Hz	233	570	570 Hz	313	1830	1.83 kHz	393	5700	5.70 kHz	473	18300	18.3 kHz
74	58	58.0 Hz	154	186	186 Hz	234	580	580 Hz	314	1860	1.86 kHz	394	5800	5.80 kHz	474	18600	18.6 kHz
75	59	59.0 Hz	155	189	189 Hz	235	590	590 Hz	315	1890	1.89 kHz	395	5900	5.90 kHz	475	18900	18.9 kHz
76	60	60.0 Hz	156	192	192 Hz	236	600	600 Hz	316	1920	1.92 kHz	396	6000	6.00 kHz	476	19200	19.2 kHz
77	60.5	60.5 Hz	157	194	194 Hz	237	608	608 Hz	317	1940	1.94 kHz	397	6080	6.08 kHz	477	19400	19.4 kHz
78	61	61.0 Hz	158	196	196 Hz	238	615	615 Hz	318	1960	1.96 kHz	398	6150	6.15 kHz	478	19600	19.6 kHz
79	62	62.0 Hz	159	198	198 Hz	239	623	623 Hz	319	1980	1.98 kHz	399	6230	6.23 kHz	479	19800	19.8 kHz
															480	20000	20.0 kHz

6.3 Q Value Table

#	Quality
0	0.3
1	0.35
2	0.41
3	0.47
4	0.55
5	0.64
6	0.75
7	0.87
8	1
9	1.2
10	1.4
11	1.6
12	1.9
13	2.2
14	2.5
15	3
16	3.5
17	4
18	4.5
19	5
20	6
21	7
22	8.4
23	10
24	12
25	14
26	16
27	19
28	22
29	25
30	30
31	60

6.4 EQ Gain Table

#	Gain	#	Gain	#	Gain
0	−18	25	−5.5	50	7
1	−17.5	26	−5	51	7.5
2	−17	27	−4.5	52	8
3	−16.5	28	−4	53	8.5
4	−16	29	−3.5	54	9
5	−15.5	30	−3	55	9.5
6	−15	31	−2.5	56	10
7	−14.5	32	−2	57	10.5
8	−14	33	−1.5	58	11
9	−13.5	34	−1	59	11.5
10	−13	35	−0.5	60	12
11	−12.5	36	0	61	12.5
12	−12	37	0.5	62	13
13	−11.5	38	1	63	13.5
14	−11	39	1.5	64	14
15	−10.5	40	2	65	14.5
16	−10	41	2.5	66	15
17	−9.5	42	3	67	15.5
18	−9	43	3.5	68	16
19	−8.5	44	4	69	16.5
20	−8	45	4.5	70	17
21	−7.5	46	5	71	17.5
22	−7	47	5.5	72	18
23	−6.5	48	6		
24	−6	49	6.5		

6.5 Input Gain Table

Value	Mic [dB]	Line [dB]	Aux [dB]	Value	Mic [dB]	Line [dB]	Aux [dB]
0	20	20	−30	21	41	41	−9
1	21	21	−29	22	42	42	−8
2	22	22	−28	23	43	43	−7
3	23	23	−27	24	44	44	−6
4	24	24	−26	25	45	45	−5
5	25	25	−25	26	46	46	−4
6	26	26	−24	27	47	47	−3
7	27	27	−23	28	48	48	−2
8	28	28	−22	29	49	49	−1
9	29	29	−21	30	50	50	0
10	30	30	−20	31	51	51	1
11	31	31	−19	32	52	52	2
12	32	32	−18	33	53	53	3
13	33	33	−17	34	54	54	4
14	34	34	−16	35	55	55	5
15	35	35	−15	36	56	56	6
16	36	36	−14	37	57	57	7
17	37	37	−13	38	58	58	8
18	38	38	−12	39	59	59	9
19	39	39	−11	40	60	60	10
20	40	40	−10				

6.6 Transfer Data Type

No	Item	Description	Type	Value	Value Description	Remarks
1	kind	Transfer data type	string	p1 to p16	Preset 1 to 16	
2				log	Logging file	

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