

Classé SSP-75 serial communication command set 10.4.2000/Juha

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Hardware specification

EIA RS-232

9600 bps, 8 bits, 1 stop bit, no parity

9-pin female (DCE) D-connector, TXD on pin 2, RXD on pin 3, GND on pin 5

ASCII transmission, no flow control

Software specification

Documentation is based on control software version 1.50.

Serial communication command format

<zone><field separator><command><field separator><parameter 1><field separator><parameter 2><line terminator>

field	purpose	possible values
<zone>	target zone for the command	numbers from 1 to 2
<command>	command identification	numbers from 1 to N
<parameter 1>	required parameter for the command	numbers from -N to N, depending on command
<parameter 2>	optional parameter for the command	none, or numbers from -N to N, depending on command
<field separator>	separator for fields in the command line	one or more spaces
<line terminator>	terminator for the command line	either CR or LF

Notes

blank lines or lines starting with '#' character are ignored

a CR/LF (or LF/CR) character pair is a valid line terminator

response to illegal command input is undefined, usually the command is just ignored

parameters which aren't required by the command are ignored

the unit uses a CR/LF pair as a line terminator

Serial communication zones

zone	target zone
1	Zone 1, aka Main
2	Zone 2, aka Zone

Example of serial communication

bold lines are commands sent to the unit, other lines are responses from the unit

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1 20 0 0                                unit comes out of reset

1 1 2 0                                main zone is commanded on
1 1 2 0                                main zone turns on
1 9 -50 0                               current main zone master volume is -50 dB
1 34 1 2                                video input format is no video, (OSD) color system is PAL
1 4 5 0                                  audio input is coaxial 1
1 2 14 14                               video and audio sources are both video 1
1 10 1 0                                 volume muting is off
1 5 5 0                                  surround mode is cinema
1 33 4 0                                 audio program format is no digital, no channels are present
1 11 1 0                                 THX processing is off
1 12 1 0                                 dynamic compression is off

1 2 3 0                                automatic video source selection is commanded
1 4 7 0                                  audio input is coaxial 3
1 2 17 17                               selected video (and audio) source is video 4
1 34 2 2                                 preferred video input is composite, color system PAL
1 5 5 0                                  surround mode is cinema
1 33 9 11                               audio program format is multich. Dolby Digital, present channels: L, C, R, LS, RS, LFE
1 11 2 0                                 THX processing is on
1 12 2 0                                 dynamic compression is on
1 34 2 1                                 preferred video input is composite, color system changed to NTSC

1 9 3 -15                             volume is turned up to -15 dB
1 9 -15 0                                volume is -15 dB

1 9 1 0                                volume is stepped up 1 dB
1 9 -14 0                                volume is -14 dB
1 9 1 0                                volume is stepped up 1 dB
1 9 -13 0                                volume is -13 dB

1 19 9 0                              volume status is queried
1 9 -13 0                                volume is -13 dB

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Serial communication commands and parameters

command available for zone(s)	command		parameter 1		parameter 2	
	command	purpose	parameter 1	purpose	parameter 2	purpose

1 / 2	1	zone power status	1	turn zone off		
			2	turn zone on		
			3	toggle zone on/off		
			4	turn all zones off		
			5	turn all zones on		

1 / 2	2	AV source selection				
			2	select next audio source automatically		
			3	select next video source automatically		
			4	select next AV source		
			5	select previous AV source		
			6	select latest AV source		
			8	select audio 1 source		
			9	select audio 2 source		
			10	select audio 3 source		
			11	select audio 4 source		
			12	select audio 5 source		
			13	select audio 6 source		
			14	select video 1 source		
			15	select video 2 source		
			16	select video 3 source		
			17	select video 4 source		
			18	select video 5 source		
			19	select video 6 source		

1	4	audio input selection for current source	1	select next input		
			2	select previous input		
			3	select analog input		
			4	select external 6-ch analog input		
			5	select coaxial 1 input		
			6	select coaxial 2 input		
			7	select coaxial 3 input		
			8	select coaxial 4 input		
			9	select optical 1 input		
			10	select optical 2 input		
			11	select AES/EBU input		
			12	select RF demodulator (optional device) input		

Command response

zone	command		parameter 1		parameter 2	
	command	purpose	parameter 1	purpose	parameter 2	purpose

1 / 2	1	zone power	1	off	0	ignore
			2	on		

1 / 2	2	audio and video source				
			8	audio 1 audio source		
			9	audio 2 audio source		
			10	audio 3 audio source		
			11	audio 4 audio source		
			12	audio 5 audio source		
			13	audio 6 audio source		
			14	video 1 audio source	14	video 1 video source
			15	video 2 audio source	15	video 2 video source
			16	video 3 audio source	16	video 3 video source
			17	video 4 audio source	17	video 4 video source
			18	video 5 audio source	18	video 5 video source
			19	video 6 audio source	19	video 6 video source

1 / 2	4	input			0	ignore
			3	analog input		
			4	external 6-ch analog input		
			5	coaxial 1 input		
			6	coaxial 2 input		
			7	coaxial 3 input		
			8	coaxial 4 input		
			9	optical 1 input		
			10	optical 2 input		
			11	AES/EBU input		
			12	RF demodulator (optional device) input		

1	5	mode selection for current source	1	select next mode
			2	select previous mode
			3	select mono mode
			4	select stereo mode
			5	select cinema mode
			6	select music mode
			7	select party mode

1 / 2	9	master volume setting	1	step volume up	-80..30 master volume value
			2	step volume down	
			3	enter volume value directly	

1 / 2	10	speaker output muting	1	turn muting off
			2	turn muting on
			3	toggle muting on/off

1	11	THX processing	1	turn THX off
			2	turn THX on
			3	toggle THX on/off

1	12	dynamic range compression for Dolby Digital	1	turn compression off
			2	turn compression on
			3	toggle compression on/off

1	13	OSD status display handling, OSD blueback handling during setup	1	turn status off
			2	turn status on without blueback
			3	turn status on with blueback
			4	toggle status on/off (no blueback)
			5	toggle blueback on/off during menu setup

1	14	front panel dimmer status	1	turn dimmer off
			2	turn dimmer on
			3	toggle dimmer on/off

1 / 2	15	sleep timer handling	1	turn sleep timer off	0..90 sleep timer value in minutes
			2	step sleep timer up	
			3	enter sleep timer value directly	

1	16	source memorizing, setup memorizing	1	memorize all settings
			2	memorize setup settings

1 / 2	5	mode	0	ignore
			3	mono mode
			4	stereo mode
			5	cinema mode
			6	music mode
			7	party mode

1 / 2	9	master volume	-80..30 volume value	0	ignore
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1 / 2	10	speaker muting	1	off	0	ignore
			2	on		

1 / 2	11	THX processing	1	off	0	ignore
			2	on		

1 / 2	12	dynamic range compression	1	off	0	ignore
			2	on		

1 / 2	13	OSD	1	off	0	ignore
			2	on without blueback		
			3	on with blueback		

1 / 2	14	front panel dimmer	1	off	0	ignore
			2	on		

1 / 2	15	sleep timer	0..90 sleep timer value in minutes	0	ignore
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1	16	memorized	0	ignore	0	ignore
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1 / 2	17	button function emulation	1	emulate normal button function	1	front panel mode down button
					3	front panel Memory button
					4	front panel Mute button
					5	front panel source down button
					6	front panel audio down button
					7	front panel rotary CCW rotation
					8	front panel rotary CW rotation
					9	front panel standby button
					10	front panel mode up button
					11	front panel audio up button
					13	front panel source up button
					14	remote Standby button
					15	remote THX button
					16	remote Comp button
					17	remote Digital-up button
					18	remote Digital-down button
					19	remote Surround-up button
					20	remote Surround-down button
					21	remote Menu button
					22	remote Mute button
					23	remote Trim button
					24	remote Status button
					58	remote Volume-up button
					26	remote Auto-Video
					27	remote Mem/Enter button
					28	remote Auto-Audio
					59	remote Volume-down button
					31	remote A. Cal button
					32	remote Disp button
					33	remote Sleep button
					34	remote Aud 1 button
					35	remote Aud 2 button
					36	remote Aud 3 button
					37	remote Aud 4 button
					38	remote Aud 5 button
					39	remote Aud 6 button
					40	remote Vid 1 button
					41	remote Vid 2 button
					42	remote Vid 3 button
					43	remote Vid 4 button
					44	remote Vid 5 button
					45	remote Vid 6 button
					57	remote Zone button
			2	emulate button hold function	14	remote Standby button

1 / 2	17	button function activated	1	normal function	1	front panel mode down button
					3	front panel Memory button
					4	front panel Mute button
					5	front panel source down button
					6	front panel audio down button
					7	front panel rotary CCW rotation
					8	front panel rotary CW rotation
					9	front panel standby button
					10	front panel mode up button
					11	front panel audio up button
					13	front panel source up button
					14	remote Standby button
					15	remote THX button
					16	remote Comp button
					17	remote Digital-up button
					18	remote Digital-down button
					19	remote Surround-up button
					20	remote Surround-down button
					21	remote Menu button
					22	remote Mute button
					23	remote Trim button
					24	remote Status button
					58	remote Volume-up button
					26	remote Auto-Video
					27	remote Mem/Enter button
					28	remote Auto-Audio
					59	remote Volume-down button
					31	remote A. Cal button
					32	remote Disp button
					33	remote Sleep button
					34	remote Aud 1 button
					35	remote Aud 2 button
					36	remote Aud 3 button
					37	remote Aud 4 button
					38	remote Aud 5 button
					39	remote Aud 6 button
					40	remote Vid 1 button
					41	remote Vid 2 button
					42	remote Vid 3 button
					43	remote Vid 4 button
					44	remote Vid 5 button
					45	remote Vid 6 button
					57	remote Zone button
			2	hold function	14	remote Standby button

16	remote Comp button
17	remote Digital-up button
18	remote Digital-down button
19	remote Surround-up button
20	remote Surround-down button
21	remote Menu button
22	remote Mute button
23	remote <TBD> button
24	remote Status button
25	remote Volume-up button
26	remote Auto-Video
27	remote Mem/Enter button
28	remote Auto-Audio
29	remote Volume-down button
30	remote <TBD> button
31	remote A. Cal button
32	remote Dim button
33	remote Sleep button
34	remote Aud 1 button
35	remote Aud 2 button
36	remote Aud 3 button
37	remote Aud 4 button
38	remote Aud 5 button
39	remote Aud 6 button
40	remote Vid 1 button
41	remote Vid 2 button
42	remote Vid 3 button
43	remote Vid 4 button
44	remote Vid 5 button
45	remote Vid 6 button
57	remote Zone button

16	remote Comp button
17	remote Digital-up button
18	remote Digital-down button
19	remote Surround-up button
20	remote Surround-down button
21	remote Menu button
22	remote Mute button
23	remote <TBD> button
24	remote Status button
25	remote Volume-up button
26	remote Auto-Video
27	remote Mem/Enter button
28	remote Auto-Audio
29	remote Volume-down button
30	remote <TBD> button
31	remote A. Cal button
32	remote Dim button
33	remote Sleep button
34	remote Aud 1 button
35	remote Aud 2 button
36	remote Aud 3 button
37	remote Aud 4 button
38	remote Aud 5 button
39	remote Aud 6 button
40	remote Vid 1 button
41	remote Vid 2 button
42	remote Vid 3 button
43	remote Vid 4 button
44	remote Vid 5 button
45	remote Vid 6 button
57	remote Zone button

65	select source label for current source	0..48	0: default label, 1: custom label, 2..48: pre-defined label
66	associate component video input for current source	0..2	0: none, 1: component input 1, 2: component input 2
67	adjust trigger source status for current source	0..1	0: no, 1: yes
68	adjust source level for current source	-16..16	level offset in dBs
69	adjust analog input gain for current source	-16..16	input gain offset in dBs
70	adjust subwoofer trim level (temporary)	-16..16	trim offset in dBs
71	adjust surround trim level (temporary)	-16..16	trim offset in dBs
72	adjust center trim level (temporary)	-16..16	trim offset in dBs
73	adjust LFE channel trim level (temporary)	-10..0	trim offset in dBs
74	select main speaker range	0..1	0: large, 1: small
75	select center speaker range	0..2	0: large, 1: small, 2: none
76	select surround speaker range	0..2	0: large, 1: small, 2: none
77	select subwoofer speaker presence status	0..1	0: no, 1: yes

65	current source label	0..48	0: default label, 1: custom label, 2..48: pre-defined label	0	ignore
66	current component video association	0..2	0: none, 1: component input 1, 2: component input 2	0	ignore
67	current trigger source status	0..1	0: no, 1: yes	0	ignore
68	current source level	-16..16	level offset in dBs	0	ignore
69	current analog input gain	-16..16	input gain offset in dBs	0	ignore
70	current subwoofer trim level	-16..16	trim offset in dBs	0	ignore
71	current surround trim level	-16..16	trim offset in dBs	0	ignore
72	current center trim level	-16..16	trim offset in dBs	0	ignore
73	current LFE channel trim level	-10..0	trim offset in dBs	0	ignore
74	main speaker range status	0..1	0: large, 1: small	0	ignore
75	center speaker range status	0..2	0: large, 1: small, 2: none	0	ignore
76	surround speaker range status	0..2	0: large, 1: small, 2: none	0	ignore
77	subwoofer presence status	0..1	0: no, 1: yes	0	ignore

1	18	direct setup handling
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78	adjust bass limiter	-55..0	bass limiter value in dBs
79	adjust left speaker level	-32..32	speaker level offset in half dBs
80	adjust center speaker level	-32..32	speaker level offset in half dBs
81	adjust right speaker level	-32..32	speaker level offset in half dBs
82	adjust right surround speaker level	-32..32	speaker level offset in half dBs
83	adjust left surround speaker level	-32..32	speaker level offset in half dBs
84	adjust subwoofer speaker level	-32..32	speaker level offset in half dBs
85	adjust left speaker delay	0..10	speaker delay in half milliseconds
86	adjust center speaker delay	0..10	speaker delay in half milliseconds
87	adjust right speaker delay	0..10	speaker delay in half milliseconds
88	adjust right surround speaker delay	0..30	speaker delay in half milliseconds
89	adjust left surround speaker delay	0..30	speaker delay in half milliseconds
90	adjust subwoofer speaker delay	0..10	speaker delay in half milliseconds
93	adjust OSD status for component output	0..1	0: no, 1: yes
94	select default color system for OSD	0..1	0: NTSC, 1: PAL
103	select fixed zone volume	0..1	0: no, 1: yes

78	bass limiter status	-55..0	bass limiter value in dBs	0	ignore
79	left speaker level	-32..32	speaker level offset in half dBs	0	ignore
80	center speaker level	-32..32	speaker level offset in half dBs	0	ignore
81	right speaker level	-32..32	speaker level offset in half dBs	0	ignore
82	right surround speaker level	-32..32	speaker level offset in half dBs	0	ignore
83	left surround speaker level	-32..32	speaker level offset in half dBs	0	ignore
84	subwoofer speaker level	-32..32	speaker level offset in half dBs	0	ignore
85	left speaker delay	0..10	speaker delay in half milliseconds	0	ignore
86	center speaker delay	0..10	speaker delay in half milliseconds	0	ignore
87	right speaker delay	0..10	speaker delay in half milliseconds	0	ignore
88	right surround speaker delay	0..30	speaker delay in half milliseconds	0	ignore
89	left surround speaker delay	0..30	speaker delay in half milliseconds	0	ignore
90	subwoofer speaker delay	0..10	speaker delay in half milliseconds	0	ignore
93	OSD status for component output	0..1	0: no, 1: yes	0	ignore
94	default color system for OSD	0..1	0: NTSC, 1: PAL	0	ignore
103	fixed zone volume	0..1	0: no, 1: yes	0	ignore

1 / 2	19	querying status information	1	power status
			2	audio / video source status
			4	input status
			5	mode status
			9	volume status
			10	muting status
			11	THX status
			12	compression status
			13	OSD status display status
			14	dimmer status
			15	sleep timer status
			33	audio input program format and channel configuration
			34	preferred video input and color format type
			49	control software version number
			50	DSP software version number
			51	C-Lib software version number
			52	product identification number
			53	DSP engine identification number
			54	RF demodulator presence status at reset
			65	current source label
			66	current component video association
			67	current trigger source status
			68	current source level
			69	current analog input gain
			70	current subwoofer trim level
			71	current surround trim level
			72	current center trim level
			73	current LFE channel trim level
			74	main speaker range status
			75	center speaker range status
			76	surround speaker range status
			77	subwoofer presence status

1 / 2	1	power status	1..2	see command 1	0	ignore
	2	audio / video source status	7..19	see command 2	14..19	see command 2
	4	input status	3..12	see command 4	0	ignore
	5	mode status	3..7	see command 5	0	ignore
	9	volume status	-80..30	see command 9	0	ignore
	10	muting status	1..2	see command 10	0	ignore
	11	THX status	1..2	see command 11	0	ignore
	12	compression status	1..2	see command 12	0	ignore
	13	OSD status display status	1..3	see command 13	0	ignore
	14	dimmer status	1..2	see command 14	0	ignore
	15	sleep timer status	0..90	see command 15	0	ignore
	33	audio input program format and channel configuration	4..10	4: no dig, 5: analog, 6: unknown dig, 7: PCM, 8: 2-ch DD, 9: DD, 10: DTS	0..127	bitfield: 1: L present, 2: C, 4: R, 8: LS, 16: S, 32: RS, 64: LFE
	34	preferred video input and color format type	0..3	1: no video, 2: composite, 3: S-video, 4: component	0..2	1: NTSC, 2: PAL, 3: unknown
	49	control software version number	0..99	major part of version number	00..99	minor part of version number
	50	DSP software version number	0..99	major part of version number	00..99	minor part of version number
	51	C-Lib software version number	0..99	version number	0	ignore
	52	product identification number	1..99	3: Classé SSP-75	0	ignore
	53	DSP engine identification number	1..99	11: Gen 2b	0	ignore
	54	RF demodulator presence status at reset	1..2	1: not present, 2: present	0	ignore
	65	current source label	0..48	0: default label, 1: custom label, 2..48: pre-defined label	0	ignore
	66	current component video association	0..2	0: none, 1: component input 1, 2: component input 2	0	ignore
	67	current trigger source status	0..1	0: no, 1: yes	0	ignore
	68	current source level	-16..16	level offset in dBs	0	ignore
	69	current analog input gain	-16..16	input gain offset in dBs	0	ignore
	70	current subwoofer trim level	-16..16	trim offset in dBs	0	ignore
	71	current surround trim level	-16..16	trim offset in dBs	0	ignore
	72	current center trim level	-16..16	trim offset in dBs	0	ignore
	73	current LFE channel trim level	-10..0	trim offset in dBs	0	ignore
	74	main speaker range status	0..1	0: large, 1: small	0	ignore
	75	center speaker range status	0..2	0: large, 1: small, 2: none	0	ignore
	76	surround speaker range status	0..2	0: large, 1: small, 2: none	0	ignore
	77	subwoofer presence status	0..1	0: no, 1: yes	0	ignore

78	bass limiter status
79	left speaker level
80	center speaker level
81	right speaker level
82	right surround speaker level
83	left surround speaker level
84	subwoofer speaker level
85	left speaker delay
86	center speaker delay
87	right speaker delay
88	right surround speaker delay
89	left surround speaker delay
90	subwoofer speaker delay
93	OSD status for component output
94	default color system for OSD
103	fixed zone volume

1 / 2	20	resetting, factory test	1	reset unit violently
			2	enter factory test, DO NOT USE

78	bass limiter status	-55..0	bass limiter value in dBs	0	ignore
79	left speaker level	-32..32	speaker level offset in half dBs	0	ignore
80	center speaker level	-32..32	speaker level offset in half dBs	0	ignore
81	right speaker level	-32..32	speaker level offset in half dBs	0	ignore
82	right surround speaker level	-32..32	speaker level offset in half dBs	0	ignore
83	left surround speaker level	-32..32	speaker level offset in half dBs	0	ignore
84	subwoofer speaker level	-32..32	speaker level offset in half dBs	0	ignore
85	left speaker delay	0..10	speaker delay in half milliseconds	0	ignore
86	center speaker delay	0..10	speaker delay in half milliseconds	0	ignore
87	right speaker delay	0..10	speaker delay in half milliseconds	0	ignore
88	right surround speaker delay	0..30	speaker delay in half milliseconds	0	ignore
89	left surround speaker delay	0..30	speaker delay in half milliseconds	0	ignore
90	subwoofer speaker delay	0..10	speaker delay in half milliseconds	0	ignore
93	OSD status for component output	0..1	0: no, 1: yes	0	ignore
94	default color system for OSD	0..1	0: NTSC, 1: PAL	0	ignore
103	fixed zone volume	0..1	0: no, 1: yes	0	ignore

1	20	reset ok	0	ignore	0	ignore
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