AUD-DTE-WPBT Tesira Command Sheet

For Tesira Command String blocks · Version 1.0.2

Every command the AUD-DTE-WPBT takes over the network, as fixed strings for Tesira Command String blocks. The unit is controlled on its own control port (TCP 8000); no other KanexPro software is needed. The same strings, with their bytes, are in `KanexPro-AUD-DTE-WPBT-Tesira-Command-Sheet-1.0.2.csv` for copying.

> **Before you start —** the Tesira server must reach the AUD-DTE-WPBT on TCP port 8000. Give the unit a fixed IP address (or a DHCP reservation).

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1. CONNECTION

HOW THE UNIT IS CONTROLLED	
Transport	TCP, port 8000 (the unit's control port)
Line ending	CR LF (hex `0D 0A`), after every string
Pacing	One string at a time. The unit answers within about 1.5 s; wait for the answer before the next string.
A refused string	The unit answers with an error line.

2. USING THE STRINGS

1. Point the Command String block at the unit's IP address, TCP port 8000.
2. Add one command per row of section 3: its string, then the line ending (hex `0D 0A`).
3. Wire each command to the control that should send it. The Bytes column is the whole string as it goes on the wire, to compare with a network capture.

Settings that only the unit's own web page has (its network, logins and firmware) stay on that page.

3. COMMANDS

68 strings, and a template for each level with more values than fit a list.

#	Command	String	Bytes (hex, with the line ending)
1	**Bluetooth: Bluetooth volume = {level} (0 to 100)**	`set bt vol {level}`	`the level in place of {level}`
2	**Bluetooth: Bluetooth volume = 0**	`set bt vol 0`	`73 65 74 20 62 74 20 76 6F 6C 20 30 0D 0A`
3	**Bluetooth: Bluetooth volume = 50**	`set bt vol 50`	`73 65 74 20 62 74 20 76 6F 6C 20 35 30 0D 0A`
4	**Bluetooth: Bluetooth volume = 100**	`set bt vol 100`	`73 65 74 20 62 74 20 76 6F 6C 20 31 30 30 0D 0A`
5	**Bluetooth: Mute Bluetooth on**	`set bt mute on`	`73 65 74 20 62 74 20 6D 75 74 65 20 6F 6E 0D 0A`
6	**Bluetooth: Mute Bluetooth off**	`set bt mute off`	`73 65 74 20 62 74 20 6D 75 74 65 20 6F 66 66 0D 0A`
7	**Bluetooth: Open for pairing on**	`set bt discoverable/pairing on`	`73 65 74 20 62 74 20 64 69 73 63 6F 76 65 72 61 62 6C 65 2F 70 61 69 72 69 6E 67 20 6F 6E 0D 0A`

8	Bluetooth: Open for pairing off	`set bt discoverable/pairing off`	`73 65 74 20 62 74 20 64 69 73 63 6F 76 65 72 61 62 6C 65 2F 70 61 69 72 69 6E 67 20 6F 66 66 0D 0A`
9	Bluetooth: Pairing stays open (s) = {level} (30 to 300)	`set bt window time {level}`	`the level in place of {level}`
10	Bluetooth: Pairing stays open (s) = 30	`set bt window time 30`	`73 65 74 20 62 74 20 77 69 6E 64 6F 77 20 74 69 6D 65 20 33 30 0D 0A`
11	Bluetooth: Pairing stays open (s) = 165	`set bt window time 165`	`73 65 74 20 62 74 20 77 69 6E 64 6F 77 20 74 69 6D 65 20 31 36 35 0D 0A`
12	Bluetooth: Pairing stays open (s) = 300	`set bt window time 300`	`73 65 74 20 62 74 20 77 69 6E 64 6F 77 20 74 69 6D 65 20 33 30 30 0D 0A`
13	Bluetooth: Close pairing by itself on	`set bt window switch on`	`73 65 74 20 62 74 20 77 69 6E 64 6F 77 20 73 77 69 74 63 68 20 6F 6E 0D 0A`
14	Bluetooth: Close pairing by itself off	`set bt window switch off`	`73 65 74 20 62 74 20 77 69 6E 64 6F 77 20 73 77 69 74 63 68 20 6F 66 66 0D 0A`
15	Inputs: Bluetooth: Gain (dB) = -12	`set input 1 gain -12`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 2D 31 32 0D 0A`
16	Inputs: Bluetooth: Gain (dB) = -11	`set input 1 gain -11`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 2D 31 31 0D 0A`
17	Inputs: Bluetooth: Gain (dB) = -10	`set input 1 gain -10`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 2D 31 30 0D 0A`
18	Inputs: Bluetooth: Gain (dB) = -9	`set input 1 gain -9`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 2D 39 0D 0A`
19	Inputs: Bluetooth: Gain (dB) = -8	`set input 1 gain -8`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 2D 38 0D 0A`
20	Inputs: Bluetooth: Gain (dB) = -7	`set input 1 gain -7`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 2D 37 0D 0A`
21	Inputs: Bluetooth: Gain (dB) = -6	`set input 1 gain -6`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 2D 36 0D 0A`
22	Inputs: Bluetooth: Gain (dB) = -5	`set input 1 gain -5`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 2D 35 0D 0A`
23	Inputs: Bluetooth: Gain (dB) = -4	`set input 1 gain -4`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 2D 34 0D 0A`
24	Inputs: Bluetooth: Gain (dB) = -3	`set input 1 gain -3`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 2D 33 0D 0A`
25	Inputs: Bluetooth: Gain (dB) = -2	`set input 1 gain -2`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 2D 32 0D 0A`
26	Inputs: Bluetooth: Gain (dB) = -1	`set input 1 gain -1`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 2D 31 0D 0A`
27	Inputs: Bluetooth: Gain (dB) = 0	`set input 1 gain 0`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 30 0D 0A`
28	Inputs: Bluetooth: Gain (dB) = 1	`set input 1 gain 1`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 31 0D 0A`
29	Inputs: Bluetooth: Gain (dB) = 2	`set input 1 gain 2`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 32 0D 0A`
30	Inputs: Bluetooth: Gain (dB) = 3	`set input 1 gain 3`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 33 0D 0A`
31	Inputs: Bluetooth: Gain (dB) = 4	`set input 1 gain 4`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 34 0D 0A`

32	Inputs: Bluetooth: Gain (dB) = 5	`set input 1 gain 5`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 35 0D 0A`
33	Inputs: Bluetooth: Gain (dB) = 6	`set input 1 gain 6`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 36 0D 0A`
34	Inputs: Bluetooth: Gain (dB) = 7	`set input 1 gain 7`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 37 0D 0A`
35	Inputs: Bluetooth: Gain (dB) = 8	`set input 1 gain 8`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 38 0D 0A`
36	Inputs: Bluetooth: Gain (dB) = 9	`set input 1 gain 9`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 39 0D 0A`
37	Inputs: Bluetooth: Gain (dB) = 10	`set input 1 gain 10`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 31 30 0D 0A`
38	Inputs: Bluetooth: Gain (dB) = 11	`set input 1 gain 11`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 31 31 0D 0A`
39	Inputs: Bluetooth: Gain (dB) = 12	`set input 1 gain 12`	`73 65 74 20 69 6E 70 75 74 20 31 20 67 61 69 6E 20 31 32 0D 0A`
40	Inputs: In 2: Gain (dB) = -12	`set input 2 gain -12`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 2D 31 32 0D 0A`
41	Inputs: In 2: Gain (dB) = -11	`set input 2 gain -11`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 2D 31 31 0D 0A`
42	Inputs: In 2: Gain (dB) = -10	`set input 2 gain -10`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 2D 31 30 0D 0A`
43	Inputs: In 2: Gain (dB) = -9	`set input 2 gain -9`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 2D 39 0D 0A`
44	Inputs: In 2: Gain (dB) = -8	`set input 2 gain -8`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 2D 38 0D 0A`
45	Inputs: In 2: Gain (dB) = -7	`set input 2 gain -7`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 2D 37 0D 0A`
46	Inputs: In 2: Gain (dB) = -6	`set input 2 gain -6`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 2D 36 0D 0A`
47	Inputs: In 2: Gain (dB) = -5	`set input 2 gain -5`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 2D 35 0D 0A`
48	Inputs: In 2: Gain (dB) = -4	`set input 2 gain -4`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 2D 34 0D 0A`
49	Inputs: In 2: Gain (dB) = -3	`set input 2 gain -3`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 2D 33 0D 0A`
50	Inputs: In 2: Gain (dB) = -2	`set input 2 gain -2`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 2D 32 0D 0A`
51	Inputs: In 2: Gain (dB) = -1	`set input 2 gain -1`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 2D 31 0D 0A`
52	Inputs: In 2: Gain (dB) = 0	`set input 2 gain 0`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 30 0D 0A`
53	Inputs: In 2: Gain (dB) = 1	`set input 2 gain 1`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 31 0D 0A`
54	Inputs: In 2: Gain (dB) = 2	`set input 2 gain 2`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 32 0D 0A`
55	Inputs: In 2: Gain (dB) = 3	`set input 2 gain 3`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 33 0D 0A`

56	**Inputs: In 2: Gain (dB) = 4**	`set input 2 gain 4`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 34 0D 0A`
57	**Inputs: In 2: Gain (dB) = 5**	`set input 2 gain 5`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 35 0D 0A`
58	**Inputs: In 2: Gain (dB) = 6**	`set input 2 gain 6`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 36 0D 0A`
59	**Inputs: In 2: Gain (dB) = 7**	`set input 2 gain 7`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 37 0D 0A`
60	**Inputs: In 2: Gain (dB) = 8**	`set input 2 gain 8`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 38 0D 0A`
61	**Inputs: In 2: Gain (dB) = 9**	`set input 2 gain 9`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 39 0D 0A`
62	**Inputs: In 2: Gain (dB) = 10**	`set input 2 gain 10`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 31 30 0D 0A`
63	**Inputs: In 2: Gain (dB) = 11**	`set input 2 gain 11`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 31 31 0D 0A`
64	**Inputs: In 2: Gain (dB) = 12**	`set input 2 gain 12`	`73 65 74 20 69 6E 70 75 74 20 32 20 67 61 69 6E 20 31 32 0D 0A`
65	**Inputs: Bluetooth: Mute on**	`set input 1 mute on`	`73 65 74 20 69 6E 70 75 74 20 31 20 6D 75 74 65 20 6F 6E 0D 0A`
66	**Inputs: Bluetooth: Mute off**	`set input 1 mute off`	`73 65 74 20 69 6E 70 75 74 20 31 20 6D 75 74 65 20 6F 66 66 0D 0A`
67	**Inputs: In 2: Mute on**	`set input 2 mute on`	`73 65 74 20 69 6E 70 75 74 20 32 20 6D 75 74 65 20 6F 6E 0D 0A`
68	**Inputs: In 2: Mute off**	`set input 2 mute off`	`73 65 74 20 69 6E 70 75 74 20 32 20 6D 75 74 65 20 6F 66 66 0D 0A`
69	**Inputs: Left and right together on**	`set input 1 stereo on`	`73 65 74 20 69 6E 70 75 74 20 31 20 73 74 65 72 65 6F 20 6F 6E 0D 0A`
70	**Inputs: Left and right together off**	`set input 1 stereo off`	`73 65 74 20 69 6E 70 75 74 20 31 20 73 74 65 72 65 6F 20 6F 66 66 0D 0A`

4. READING THE UNIT BACK

Send these to read the unit back (on a timer, or after a change).

#	String	Bytes (hex)	The reply gives
1	`get bt vol`	`67 65 74 20 62 74 20 76 6F 6C 0D 0A`	Bluetooth volume
2	`get bt mute`	`67 65 74 20 62 74 20 6D 75 74 65 0D 0A`	Mute Bluetooth
3	`get bt discoverable/pairing`	`67 65 74 20 62 74 20 64 69 73 63 6F 76 65 72 61 62 6C 65 2F 70 61 69 72 69 6E 67 0D 0A`	Open for pairing
4	`get bt audio bridging`	`67 65 74 20 62 74 20 61 75 64 69 6F 20 62 72 69 64 67 69 6E 67 0D 0A`	Bluetooth bridging
5	`get input 1 stereo`	`67 65 74 20 69 6E 70 75 74 20 31 20 73 74 65 72 65 6F 0D 0A`	Left and right together

6	`get bt name`	`67 65 74 20 62 74 20 6E 61 6D 65 0D 0A`	Bluetooth name
7	`get bt window time`	`67 65 74 20 62 74 20 77 69 6E 64 6F 77 20 74 69 6D 65 0D 0A`	Pairing stays open (s)
8	`get bt window switch`	`67 65 74 20 62 74 20 77 69 6E 64 6F 77 20 73 77 69 74 63 68 0D 0A`	Close pairing by itself
9	`get fw version`	`67 65 74 20 66 77 20 76 65 72 73 69 6F 6E 0D 0A`	Firmware
10	`get artist`	`67 65 74 20 61 72 74 69 73 74 0D 0A`	Artist
11	`get album`	`67 65 74 20 61 6C 62 75 6D 0D 0A`	Album
12	`get track`	`67 65 74 20 74 72 61 63 6B 0D 0A`	Track
13	`get bt format`	`67 65 74 20 62 74 20 66 6F 72 6D 61 74 0D 0A`	Bluetooth format

5. TROUBLESHOOTING

Nothing happens.
Check the unit's IP address and that TCP 8000 is open between the Tesira server and the unit (same network or VLAN, or routed; no firewall in between). Check the line ending is sent after each string.

The unit answers with an error.
The string or its value is not one it takes, or the unit is in standby: turn it on first.