MMX-4X4CAT-70M Tesira Command Sheet

For Tesira Command String blocks · Version 1.0.3

Every command the MMX-4X4CAT-70M 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-MMX-4X4CAT-70M-Tesira-Command-Sheet-1.0.3.csv` for copying.

> **Before you start —** the Tesira server must reach the MMX-4X4CAT-70M on TCP port 8000. Give the unit a fixed IP address (or a DHCP reservation).

TABLE OF CONTENTS

1. Connection
2. Using the strings
3. Commands
4. Reading the unit back
5. Troubleshooting

1. CONNECTION

HOW THE UNIT IS CONTROLLED	
Transport	TCP, port 8000 (the unit's control port)
Line ending	"!" (hex `21`), 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 `21`).
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

210 strings.

#	Command	String	Bytes (hex, with the line ending)
1	**Route: All outputs: Source = Input 1**	`s in 1 av out 0`	`73 20 69 6E 20 31 20 61 76 20 6F 75 74 20 30 21`
2	**Route: All outputs: Source = Input 2**	`s in 2 av out 0`	`73 20 69 6E 20 32 20 61 76 20 6F 75 74 20 30 21`
3	**Route: All outputs: Source = Input 3**	`s in 3 av out 0`	`73 20 69 6E 20 33 20 61 76 20 6F 75 74 20 30 21`
4	**Route: All outputs: Source = Input 4**	`s in 4 av out 0`	`73 20 69 6E 20 34 20 61 76 20 6F 75 74 20 30 21`
5	**Route: Output 1: Source = Input 1**	`s in 1 av out 1`	`73 20 69 6E 20 31 20 61 76 20 6F 75 74 20 31 21`
6	**Route: Output 1: Source = Input 2**	`s in 2 av out 1`	`73 20 69 6E 20 32 20 61 76 20 6F 75 74 20 31 21`

7	Route: Output 1: Source = Input 3	`s in 3 av out 1`	`73 20 69 6E 20 33 20 61 76 20 6F 75 74 20 31 21`
8	Route: Output 1: Source = Input 4	`s in 4 av out 1`	`73 20 69 6E 20 34 20 61 76 20 6F 75 74 20 31 21`
9	Route: Output 2: Source = Input 1	`s in 1 av out 2`	`73 20 69 6E 20 31 20 61 76 20 6F 75 74 20 32 21`
10	Route: Output 2: Source = Input 2	`s in 2 av out 2`	`73 20 69 6E 20 32 20 61 76 20 6F 75 74 20 32 21`
11	Route: Output 2: Source = Input 3	`s in 3 av out 2`	`73 20 69 6E 20 33 20 61 76 20 6F 75 74 20 32 21`
12	Route: Output 2: Source = Input 4	`s in 4 av out 2`	`73 20 69 6E 20 34 20 61 76 20 6F 75 74 20 32 21`
13	Route: Output 3: Source = Input 1	`s in 1 av out 3`	`73 20 69 6E 20 31 20 61 76 20 6F 75 74 20 33 21`
14	Route: Output 3: Source = Input 2	`s in 2 av out 3`	`73 20 69 6E 20 32 20 61 76 20 6F 75 74 20 33 21`
15	Route: Output 3: Source = Input 3	`s in 3 av out 3`	`73 20 69 6E 20 33 20 61 76 20 6F 75 74 20 33 21`
16	Route: Output 3: Source = Input 4	`s in 4 av out 3`	`73 20 69 6E 20 34 20 61 76 20 6F 75 74 20 33 21`
17	Route: Output 4: Source = Input 1	`s in 1 av out 4`	`73 20 69 6E 20 31 20 61 76 20 6F 75 74 20 34 21`
18	Route: Output 4: Source = Input 2	`s in 2 av out 4`	`73 20 69 6E 20 32 20 61 76 20 6F 75 74 20 34 21`
19	Route: Output 4: Source = Input 3	`s in 3 av out 4`	`73 20 69 6E 20 33 20 61 76 20 6F 75 74 20 34 21`
20	Route: Output 4: Source = Input 4	`s in 4 av out 4`	`73 20 69 6E 20 34 20 61 76 20 6F 75 74 20 34 21`
21	Picture: Output 1: HDMI picture on	`s hdmi 1 stream 1`	`73 20 68 64 6D 69 20 31 20 73 74 72 65 61 6D 20 31 21`
22	Picture: Output 1: HDMI picture off	`s hdmi 1 stream 0`	`73 20 68 64 6D 69 20 31 20 73 74 72 65 61 6D 20 30 21`
23	Picture: Output 2: HDMI picture on	`s hdmi 2 stream 1`	`73 20 68 64 6D 69 20 32 20 73 74 72 65 61 6D 20 31 21`
24	Picture: Output 2: HDMI picture off	`s hdmi 2 stream 0`	`73 20 68 64 6D 69 20 32 20 73 74 72 65 61 6D 20 30 21`
25	Picture: Output 3: HDMI picture on	`s hdmi 3 stream 1`	`73 20 68 64 6D 69 20 33 20 73 74 72 65 61 6D 20 31 21`
26	Picture: Output 3: HDMI picture off	`s hdmi 3 stream 0`	`73 20 68 64 6D 69 20 33 20 73 74 72 65 61 6D 20 30 21`
27	Picture: Output 4: HDMI picture on	`s hdmi 4 stream 1`	`73 20 68 64 6D 69 20 34 20 73 74 72 65 61 6D 20 31 21`
28	Picture: Output 4: HDMI picture off	`s hdmi 4 stream 0`	`73 20 68 64 6D 69 20 34 20 73 74 72 65 61 6D 20 30 21`
29	Picture: Output 1: HDBaseT picture on	`s cat 1 stream 1`	`73 20 63 61 74 20 31 20 73 74 72 65 61 6D 20 31 21`
30	Picture: Output 1: HDBaseT picture off	`s cat 1 stream 0`	`73 20 63 61 74 20 31 20 73 74 72 65 61 6D 20 30 21`

31	Picture: Output 2: HDBaseT picture on	`s cat 2 stream 1`	`73 20 63 61 74 20 32 20 73 74 72 65 61 6D 20 31 21`
32	Picture: Output 2: HDBaseT picture off	`s cat 2 stream 0`	`73 20 63 61 74 20 32 20 73 74 72 65 61 6D 20 30 21`
33	Picture: Output 3: HDBaseT picture on	`s cat 3 stream 1`	`73 20 63 61 74 20 33 20 73 74 72 65 61 6D 20 31 21`
34	Picture: Output 3: HDBaseT picture off	`s cat 3 stream 0`	`73 20 63 61 74 20 33 20 73 74 72 65 61 6D 20 30 21`
35	Picture: Output 4: HDBaseT picture on	`s cat 4 stream 1`	`73 20 63 61 74 20 34 20 73 74 72 65 61 6D 20 31 21`
36	Picture: Output 4: HDBaseT picture off	`s cat 4 stream 0`	`73 20 63 61 74 20 34 20 73 74 72 65 61 6D 20 30 21`
37	Power: Standby On	`s power 1`	`73 20 70 6F 77 65 72 20 31 21`
38	Power: Standby Standby	`s power 0`	`73 20 70 6F 77 65 72 20 30 21`
39	Presets: Presets 1	`s recall preset 1`	`73 20 72 65 63 61 6C 6C 20 70 72 65 73 65 74 20 31 21`
40	Presets: Presets 2	`s recall preset 2`	`73 20 72 65 63 61 6C 6C 20 70 72 65 73 65 74 20 32 21`
41	Presets: Presets 3	`s recall preset 3`	`73 20 72 65 63 61 6C 6C 20 70 72 65 73 65 74 20 33 21`
42	Presets: Presets 4	`s recall preset 4`	`73 20 72 65 63 61 6C 6C 20 70 72 65 73 65 74 20 34 21`
43	Presets: Save 1	`s save preset 1`	`73 20 73 61 76 65 20 70 72 65 73 65 74 20 31 21`
44	Presets: Save 2	`s save preset 2`	`73 20 73 61 76 65 20 70 72 65 73 65 74 20 32 21`
45	Presets: Save 3	`s save preset 3`	`73 20 73 61 76 65 20 70 72 65 73 65 74 20 33 21`
46	Presets: Save 4	`s save preset 4`	`73 20 73 61 76 65 20 70 72 65 73 65 74 20 34 21`
47	Video: Output 1: Scaler = Bypass	`s hdmi 1 scaler 1`	`73 20 68 64 6D 69 20 31 20 73 63 61 6C 65 72 20 31 21`
48	Video: Output 1: Scaler = 4K to 1080p	`s hdmi 1 scaler 2`	`73 20 68 64 6D 69 20 31 20 73 63 61 6C 65 72 20 32 21`
49	Video: Output 1: Scaler = Auto	`s hdmi 1 scaler 3`	`73 20 68 64 6D 69 20 31 20 73 63 61 6C 65 72 20 33 21`
50	Video: Output 2: Scaler = Bypass	`s hdmi 2 scaler 1`	`73 20 68 64 6D 69 20 32 20 73 63 61 6C 65 72 20 31 21`
51	Video: Output 2: Scaler = 4K to 1080p	`s hdmi 2 scaler 2`	`73 20 68 64 6D 69 20 32 20 73 63 61 6C 65 72 20 32 21`
52	Video: Output 2: Scaler = Auto	`s hdmi 2 scaler 3`	`73 20 68 64 6D 69 20 32 20 73 63 61 6C 65 72 20 33 21`
53	Video: Output 3: Scaler = Bypass	`s hdmi 3 scaler 1`	`73 20 68 64 6D 69 20 33 20 73 63 61 6C 65 72 20 31 21`
54	Video: Output 3: Scaler = 4K to 1080p	`s hdmi 3 scaler 2`	`73 20 68 64 6D 69 20 33 20 73 63 61 6C 65 72 20 32 21`
55	Video: Output 3: Scaler = Auto	`s hdmi 3 scaler 3`	`73 20 68 64 6D 69 20 33 20 73 63 61 6C 65 72 20 33 21`

56	Video: Output 4: Scaler = Bypass	`s hdmi 4 scaler 1`	`73 20 68 64 6D 69 20 34 20 73 63 61 6C 65 72 20 31 21`
57	Video: Output 4: Scaler = 4K to 1080p	`s hdmi 4 scaler 2`	`73 20 68 64 6D 69 20 34 20 73 63 61 6C 65 72 20 32 21`
58	Video: Output 4: Scaler = Auto	`s hdmi 4 scaler 3`	`73 20 68 64 6D 69 20 34 20 73 63 61 6C 65 72 20 33 21`
59	Video: Input 1: EDID = 1080p,Stereo Audio 2.0	`s edid in 1 from 1`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 31 21`
60	Video: Input 1: EDID = 1080p,Dolby/DTS 5.1	`s edid in 1 from 2`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 32 21`
61	Video: Input 1: EDID = 1080p,HD Audio 7.1	`s edid in 1 from 3`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 33 21`
62	Video: Input 1: EDID = 1080i,Stereo Audio 2.0	`s edid in 1 from 4`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 34 21`
63	Video: Input 1: EDID = 1080i,Dolby/DTS 5.1	`s edid in 1 from 5`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 35 21`
64	Video: Input 1: EDID = 1080i,HD Audio 7.1	`s edid in 1 from 6`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 36 21`
65	Video: Input 1: EDID = 3D,Stereo Audio 2.0	`s edid in 1 from 7`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 37 21`
66	Video: Input 1: EDID = 3D,Dolby/DTS 5.1	`s edid in 1 from 8`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 38 21`
67	Video: Input 1: EDID = 3D,HD Audio 7.1	`s edid in 1 from 9`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 39 21`
68	Video: Input 1: EDID = 4K2K30_444,Stereo Audio 2.0	`s edid in 1 from 10`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 31 30 21`
69	Video: Input 1: EDID = 4K2K30_444,Dolby/DTS 5.1	`s edid in 1 from 11`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 31 31 21`
70	Video: Input 1: EDID = 4K2K30_444,HD Audio 7.1	`s edid in 1 from 12`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 31 32 21`
71	Video: Input 1: EDID = 4K2K60_420,Stereo Audio 2.0	`s edid in 1 from 13`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 31 33 21`
72	Video: Input 1: EDID = 4K2K60_420,Dolby/DTS 5.1	`s edid in 1 from 14`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 31 34 21`
73	Video: Input 1: EDID = 4K2K60_420,HD Audio 7.1	`s edid in 1 from 15`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 31 35 21`
74	Video: Input 1: EDID = 4K2K60_444,Stereo Audio 2.0	`s edid in 1 from 16`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 31 36 21`
75	Video: Input 1: EDID = 4K2K60_444,Dolby/DTS 5.1	`s edid in 1 from 17`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 31 37 21`
76	Video: Input 1: EDID = 4K2K60_444,HD Audio 7.1	`s edid in 1 from 18`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 31 38 21`
77	Video: Input 1: EDID = 4K2K60_444,Stereo Audio 2.0 HDR	`s edid in 1 from 19`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 31 39 21`
78	Video: Input 1: EDID = 4K2K60_444,Dolby/DTS 5.1 HDR	`s edid in 1 from 20`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 32 30 21`
79	Video: Input 1: EDID = 4K2K60_444,HD Audio 7.1 HDR	`s edid in 1 from 21`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 32 31 21`

80	Video: Input 1: EDID = User define1	`s edid in 1 from 22`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 32 32 21`
81	Video: Input 1: EDID = User define2	`s edid in 1 from 23`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 32 33 21`
82	Video: Input 1: EDID = copy from hdmi output 1	`s edid in 1 from 24`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 32 34 21`
83	Video: Input 1: EDID = copy from hdmi output 2	`s edid in 1 from 25`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 32 35 21`
84	Video: Input 1: EDID = copy from hdmi output 3	`s edid in 1 from 26`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 32 36 21`
85	Video: Input 1: EDID = copy from hdmi output 4	`s edid in 1 from 27`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 32 37 21`
86	Video: Input 1: EDID = copy from cat output 1	`s edid in 1 from 28`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 32 38 21`
87	Video: Input 1: EDID = copy from cat output 2	`s edid in 1 from 29`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 32 39 21`
88	Video: Input 1: EDID = copy from cat output 3	`s edid in 1 from 30`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 33 30 21`
89	Video: Input 1: EDID = copy from cat output 4	`s edid in 1 from 31`	`73 20 65 64 69 64 20 69 6E 20 31 20 66 72 6F 6D 20 33 31 21`
90	Video: Input 2: EDID = 1080p,Stereo Audio 2.0	`s edid in 2 from 1`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 31 21`
91	Video: Input 2: EDID = 1080p,Dolby/DTS 5.1	`s edid in 2 from 2`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 32 21`
92	Video: Input 2: EDID = 1080p,HD Audio 7.1	`s edid in 2 from 3`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 33 21`
93	Video: Input 2: EDID = 1080i,Stereo Audio 2.0	`s edid in 2 from 4`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 34 21`
94	Video: Input 2: EDID = 1080i,Dolby/DTS 5.1	`s edid in 2 from 5`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 35 21`
95	Video: Input 2: EDID = 1080i,HD Audio 7.1	`s edid in 2 from 6`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 36 21`
96	Video: Input 2: EDID = 3D,Stereo Audio 2.0	`s edid in 2 from 7`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 37 21`
97	Video: Input 2: EDID = 3D,Dolby/DTS 5.1	`s edid in 2 from 8`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 38 21`
98	Video: Input 2: EDID = 3D,HD Audio 7.1	`s edid in 2 from 9`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 39 21`
99	Video: Input 2: EDID = 4K2K30_444,Stereo Audio 2.0	`s edid in 2 from 10`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 31 30 21`
100	Video: Input 2: EDID = 4K2K30_444,Dolby/DTS 5.1	`s edid in 2 from 11`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 31 31 21`
101	Video: Input 2: EDID = 4K2K30_444,HD Audio 7.1	`s edid in 2 from 12`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 31 32 21`
102	Video: Input 2: EDID = 4K2K60_420,Stereo Audio 2.0	`s edid in 2 from 13`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 31 33 21`
103	Video: Input 2: EDID = 4K2K60_420,Dolby/DTS 5.1	`s edid in 2 from 14`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 31 34 21`

104	Video: Input 2: EDID = 4K2K60_420,HD Audio 7.1	`s edid in 2 from 15`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 31 35 21`
105	Video: Input 2: EDID = 4K2K60_444,Stereo Audio 2.0	`s edid in 2 from 16`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 31 36 21`
106	Video: Input 2: EDID = 4K2K60_444,Dolby/DTS 5.1	`s edid in 2 from 17`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 31 37 21`
107	Video: Input 2: EDID = 4K2K60_444,HD Audio 7.1	`s edid in 2 from 18`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 31 38 21`
108	Video: Input 2: EDID = 4K2K60_444,Stereo Audio 2.0 HDR	`s edid in 2 from 19`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 31 39 21`
109	Video: Input 2: EDID = 4K2K60_444,Dolby/DTS 5.1 HDR	`s edid in 2 from 20`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 32 30 21`
110	Video: Input 2: EDID = 4K2K60_444,HD Audio 7.1 HDR	`s edid in 2 from 21`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 32 31 21`
111	Video: Input 2: EDID = User define1	`s edid in 2 from 22`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 32 32 21`
112	Video: Input 2: EDID = User define2	`s edid in 2 from 23`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 32 33 21`
113	Video: Input 2: EDID = copy from hdmi output 1	`s edid in 2 from 24`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 32 34 21`
114	Video: Input 2: EDID = copy from hdmi output 2	`s edid in 2 from 25`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 32 35 21`
115	Video: Input 2: EDID = copy from hdmi output 3	`s edid in 2 from 26`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 32 36 21`
116	Video: Input 2: EDID = copy from hdmi output 4	`s edid in 2 from 27`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 32 37 21`
117	Video: Input 2: EDID = copy from cat output 1	`s edid in 2 from 28`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 32 38 21`
118	Video: Input 2: EDID = copy from cat output 2	`s edid in 2 from 29`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 32 39 21`
119	Video: Input 2: EDID = copy from cat output 3	`s edid in 2 from 30`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 33 30 21`
120	Video: Input 2: EDID = copy from cat output 4	`s edid in 2 from 31`	`73 20 65 64 69 64 20 69 6E 20 32 20 66 72 6F 6D 20 33 31 21`
121	Video: Input 3: EDID = 1080p,Stereo Audio 2.0	`s edid in 3 from 1`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 31 21`
122	Video: Input 3: EDID = 1080p,Dolby/DTS 5.1	`s edid in 3 from 2`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 32 21`
123	Video: Input 3: EDID = 1080p,HD Audio 7.1	`s edid in 3 from 3`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 33 21`
124	Video: Input 3: EDID = 1080i,Stereo Audio 2.0	`s edid in 3 from 4`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 34 21`
125	Video: Input 3: EDID = 1080i,Dolby/DTS 5.1	`s edid in 3 from 5`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 35 21`
126	Video: Input 3: EDID = 1080i,HD Audio 7.1	`s edid in 3 from 6`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 36 21`
127	Video: Input 3: EDID = 3D,Stereo Audio 2.0	`s edid in 3 from 7`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 37 21`

128	Video: Input 3: EDID = 3D,Dolby/DTS 5.1	`s edid in 3 from 8`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 38 21`
129	Video: Input 3: EDID = 3D,HD Audio 7.1	`s edid in 3 from 9`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 39 21`
130	Video: Input 3: EDID = 4K2K30_444,Stereo Audio 2.0	`s edid in 3 from 10`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 31 30 21`
131	Video: Input 3: EDID = 4K2K30_444,Dolby/DTS 5.1	`s edid in 3 from 11`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 31 31 21`
132	Video: Input 3: EDID = 4K2K30_444,HD Audio 7.1	`s edid in 3 from 12`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 31 32 21`
133	Video: Input 3: EDID = 4K2K60_420,Stereo Audio 2.0	`s edid in 3 from 13`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 31 33 21`
134	Video: Input 3: EDID = 4K2K60_420,Dolby/DTS 5.1	`s edid in 3 from 14`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 31 34 21`
135	Video: Input 3: EDID = 4K2K60_420,HD Audio 7.1	`s edid in 3 from 15`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 31 35 21`
136	Video: Input 3: EDID = 4K2K60_444,Stereo Audio 2.0	`s edid in 3 from 16`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 31 36 21`
137	Video: Input 3: EDID = 4K2K60_444,Dolby/DTS 5.1	`s edid in 3 from 17`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 31 37 21`
138	Video: Input 3: EDID = 4K2K60_444,HD Audio 7.1	`s edid in 3 from 18`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 31 38 21`
139	Video: Input 3: EDID = 4K2K60_444,Stereo Audio 2.0 HDR	`s edid in 3 from 19`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 31 39 21`
140	Video: Input 3: EDID = 4K2K60_444,Dolby/DTS 5.1 HDR	`s edid in 3 from 20`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 32 30 21`
141	Video: Input 3: EDID = 4K2K60_444,HD Audio 7.1 HDR	`s edid in 3 from 21`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 32 31 21`
142	Video: Input 3: EDID = User define1	`s edid in 3 from 22`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 32 32 21`
143	Video: Input 3: EDID = User define2	`s edid in 3 from 23`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 32 33 21`
144	Video: Input 3: EDID = copy from hdmi output 1	`s edid in 3 from 24`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 32 34 21`
145	Video: Input 3: EDID = copy from hdmi output 2	`s edid in 3 from 25`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 32 35 21`
146	Video: Input 3: EDID = copy from hdmi output 3	`s edid in 3 from 26`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 32 36 21`
147	Video: Input 3: EDID = copy from hdmi output 4	`s edid in 3 from 27`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 32 37 21`
148	Video: Input 3: EDID = copy from cat output 1	`s edid in 3 from 28`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 32 38 21`
149	Video: Input 3: EDID = copy from cat output 2	`s edid in 3 from 29`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 32 39 21`
150	Video: Input 3: EDID = copy from cat output 3	`s edid in 3 from 30`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 33 30 21`
151	Video: Input 3: EDID = copy from cat output 4	`s edid in 3 from 31`	`73 20 65 64 69 64 20 69 6E 20 33 20 66 72 6F 6D 20 33 31 21`

152	Video: Input 4: EDID = 1080p,Stereo Audio 2.0	`s edid in 4 from 1`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 31 21`
153	Video: Input 4: EDID = 1080p,Dolby/DTS 5.1	`s edid in 4 from 2`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 32 21`
154	Video: Input 4: EDID = 1080p,HD Audio 7.1	`s edid in 4 from 3`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 33 21`
155	Video: Input 4: EDID = 1080i,Stereo Audio 2.0	`s edid in 4 from 4`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 34 21`
156	Video: Input 4: EDID = 1080i,Dolby/DTS 5.1	`s edid in 4 from 5`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 35 21`
157	Video: Input 4: EDID = 1080i,HD Audio 7.1	`s edid in 4 from 6`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 36 21`
158	Video: Input 4: EDID = 3D,Stereo Audio 2.0	`s edid in 4 from 7`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 37 21`
159	Video: Input 4: EDID = 3D,Dolby/DTS 5.1	`s edid in 4 from 8`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 38 21`
160	Video: Input 4: EDID = 3D,HD Audio 7.1	`s edid in 4 from 9`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 39 21`
161	Video: Input 4: EDID = 4K2K30_444,Stereo Audio 2.0	`s edid in 4 from 10`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 31 30 21`
162	Video: Input 4: EDID = 4K2K30_444,Dolby/DTS 5.1	`s edid in 4 from 11`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 31 31 21`
163	Video: Input 4: EDID = 4K2K30_444,HD Audio 7.1	`s edid in 4 from 12`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 31 32 21`
164	Video: Input 4: EDID = 4K2K60_420,Stereo Audio 2.0	`s edid in 4 from 13`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 31 33 21`
165	Video: Input 4: EDID = 4K2K60_420,Dolby/DTS 5.1	`s edid in 4 from 14`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 31 34 21`
166	Video: Input 4: EDID = 4K2K60_420,HD Audio 7.1	`s edid in 4 from 15`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 31 35 21`
167	Video: Input 4: EDID = 4K2K60_444,Stereo Audio 2.0	`s edid in 4 from 16`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 31 36 21`
168	Video: Input 4: EDID = 4K2K60_444,Dolby/DTS 5.1	`s edid in 4 from 17`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 31 37 21`
169	Video: Input 4: EDID = 4K2K60_444,HD Audio 7.1	`s edid in 4 from 18`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 31 38 21`
170	Video: Input 4: EDID = 4K2K60_444,Stereo Audio 2.0 HDR	`s edid in 4 from 19`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 31 39 21`
171	Video: Input 4: EDID = 4K2K60_444,Dolby/DTS 5.1 HDR	`s edid in 4 from 20`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 32 30 21`
172	Video: Input 4: EDID = 4K2K60_444,HD Audio 7.1 HDR	`s edid in 4 from 21`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 32 31 21`
173	Video: Input 4: EDID = User define1	`s edid in 4 from 22`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 32 32 21`
174	Video: Input 4: EDID = User define2	`s edid in 4 from 23`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 32 33 21`
175	Video: Input 4: EDID = copy from hdmi output 1	`s edid in 4 from 24`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 32 34 21`

176	Video: Input 4: EDID = copy from hdmi output 2	`s edid in 4 from 25`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 32 35 21`
177	Video: Input 4: EDID = copy from hdmi output 3	`s edid in 4 from 26`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 32 36 21`
178	Video: Input 4: EDID = copy from hdmi output 4	`s edid in 4 from 27`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 32 37 21`
179	Video: Input 4: EDID = copy from cat output 1	`s edid in 4 from 28`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 32 38 21`
180	Video: Input 4: EDID = copy from cat output 2	`s edid in 4 from 29`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 32 39 21`
181	Video: Input 4: EDID = copy from cat output 3	`s edid in 4 from 30`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 33 30 21`
182	Video: Input 4: EDID = copy from cat output 4	`s edid in 4 from 31`	`73 20 65 64 69 64 20 69 6E 20 34 20 66 72 6F 6D 20 33 31 21`
183	Video: Output 1: HDBaseT compression (DSC) = Mode 1 (default)	`s cat 1 dsc mode 1`	`73 20 63 61 74 20 31 20 64 73 63 20 6D 6F 64 65 20 31 21`
184	Video: Output 1: HDBaseT compression (DSC) = Mode 2	`s cat 1 dsc mode 2`	`73 20 63 61 74 20 31 20 64 73 63 20 6D 6F 64 65 20 32 21`
185	Video: Output 1: HDBaseT compression (DSC) = Mode 3	`s cat 1 dsc mode 3`	`73 20 63 61 74 20 31 20 64 73 63 20 6D 6F 64 65 20 33 21`
186	Video: Output 2: HDBaseT compression (DSC) = Mode 1 (default)	`s cat 2 dsc mode 1`	`73 20 63 61 74 20 32 20 64 73 63 20 6D 6F 64 65 20 31 21`
187	Video: Output 2: HDBaseT compression (DSC) = Mode 2	`s cat 2 dsc mode 2`	`73 20 63 61 74 20 32 20 64 73 63 20 6D 6F 64 65 20 32 21`
188	Video: Output 2: HDBaseT compression (DSC) = Mode 3	`s cat 2 dsc mode 3`	`73 20 63 61 74 20 32 20 64 73 63 20 6D 6F 64 65 20 33 21`
189	Video: Output 3: HDBaseT compression (DSC) = Mode 1 (default)	`s cat 3 dsc mode 1`	`73 20 63 61 74 20 33 20 64 73 63 20 6D 6F 64 65 20 31 21`
190	Video: Output 3: HDBaseT compression (DSC) = Mode 2	`s cat 3 dsc mode 2`	`73 20 63 61 74 20 33 20 64 73 63 20 6D 6F 64 65 20 32 21`
191	Video: Output 3: HDBaseT compression (DSC) = Mode 3	`s cat 3 dsc mode 3`	`73 20 63 61 74 20 33 20 64 73 63 20 6D 6F 64 65 20 33 21`
192	Video: Output 4: HDBaseT compression (DSC) = Mode 1 (default)	`s cat 4 dsc mode 1`	`73 20 63 61 74 20 34 20 64 73 63 20 6D 6F 64 65 20 31 21`
193	Video: Output 4: HDBaseT compression (DSC) = Mode 2	`s cat 4 dsc mode 2`	`73 20 63 61 74 20 34 20 64 73 63 20 6D 6F 64 65 20 32 21`
194	Video: Output 4: HDBaseT compression (DSC) = Mode 3	`s cat 4 dsc mode 3`	`73 20 63 61 74 20 34 20 64 73 63 20 6D 6F 64 65 20 33 21`
195	Sound: Output 1: Sound back from the screen (ARC) on	`s hdmi 1 arc 1`	`73 20 68 64 6D 69 20 31 20 61 72 63 20 31 21`
196	Sound: Output 1: Sound back from the screen (ARC) off	`s hdmi 1 arc 0`	`73 20 68 64 6D 69 20 31 20 61 72 63 20 30 21`
197	Sound: Output 2: Sound back from the screen (ARC) on	`s hdmi 2 arc 1`	`73 20 68 64 6D 69 20 32 20 61 72 63 20 31 21`

198	Sound: Output 2: Sound back from the screen (ARC) off	`s hdmi 2 arc 0`	`73 20 68 64 6D 69 20 32 20 61 72 63 20 30 21`
199	Sound: Output 3: Sound back from the screen (ARC) on	`s hdmi 3 arc 1`	`73 20 68 64 6D 69 20 33 20 61 72 63 20 31 21`
200	Sound: Output 3: Sound back from the screen (ARC) off	`s hdmi 3 arc 0`	`73 20 68 64 6D 69 20 33 20 61 72 63 20 30 21`
201	Sound: Output 4: Sound back from the screen (ARC) on	`s hdmi 4 arc 1`	`73 20 68 64 6D 69 20 34 20 61 72 63 20 31 21`
202	Sound: Output 4: Sound back from the screen (ARC) off	`s hdmi 4 arc 0`	`73 20 68 64 6D 69 20 34 20 61 72 63 20 30 21`
203	Presets: Clear a preset 1	`s clear preset 1`	`73 20 63 6C 65 61 72 20 70 72 65 73 65 74 20 31 21`
204	Presets: Clear a preset 2	`s clear preset 2`	`73 20 63 6C 65 61 72 20 70 72 65 73 65 74 20 32 21`
205	Presets: Clear a preset 3	`s clear preset 3`	`73 20 63 6C 65 61 72 20 70 72 65 73 65 74 20 33 21`
206	Presets: Clear a preset 4	`s clear preset 4`	`73 20 63 6C 65 61 72 20 70 72 65 73 65 74 20 34 21`
207	System: Lock the front panel on	`s lock 1`	`73 20 6C 6F 63 6B 20 31 21`
208	System: Lock the front panel off	`s lock 0`	`73 20 6C 6F 63 6B 20 30 21`
209	System: Beep on	`s beep 1`	`73 20 62 65 65 70 20 31 21`
210	System: Beep off	`s beep 0`	`73 20 62 65 65 70 20 30 21`

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	`r av out 0`	`72 20 61 76 20 6F 75 74 20 30 21`	Source
2	`r link in 0`	`72 20 6C 69 6E 6B 20 69 6E 20 30 21`	Signal
3	`r link out 0`	`72 20 6C 69 6E 6B 20 6F 75 74 20 30 21`	Connected, HDBaseT receiver
4	`r hdmi 0 stream`	`72 20 68 64 6D 69 20 30 20 73 74 72 65 61 6D 21`	HDMI picture
5	`r cat 0 stream`	`72 20 63 61 74 20 30 20 73 74 72 65 61 6D 21`	HDBaseT picture
6	`r power`	`72 20 70 6F 77 65 72 21`	Power
7	`r hdmi 0 scaler`	`72 20 68 64 6D 69 20 30 20 73 63 61 6C 65 72 21`	Scaler
8	`r edid in 0`	`72 20 65 64 69 64 20 69 6E 20 30 21`	EDID
9	`r cat 0 dsc mode`	`72 20 63 61 74 20 30 20 64 73 63 20 6D 6F 64 65 21`	HDBaseT compression (DSC)

10	`r hdmi 0 arc`	`72 20 68 64 6D 69 20 30 20 61 72 63 21`	Sound back from the screen (ARC)
11	`r lock`	`72 20 6C 6F 63 6B 21`	Lock the front panel
12	`r beep`	`72 20 62 65 65 70 21`	Beep
13	`r fan`	`72 20 66 61 6E 21`	Fan running
14	`r ipconfig`	`72 20 69 70 63 6F 6E 66 69 67 21`	IP mode, Address, Subnet mask, Gateway

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.