MMX-4X4VW Tesira Command Sheet

For Tesira Command String blocks · Version 1.0.3

Every command the MMX-4X4VW takes over the network, as fixed strings for Tesira Command String blocks. The unit is controlled on its own control port (TCP 8001); no other KanexPro software is needed. The same strings, with their bytes, are in `KanexPro-MMX-4X4VW-Tesira-Command-Sheet-1.0.3.csv` for copying.

> **Before you start —** the Tesira server must reach the MMX-4X4VW on TCP port 8001. 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 8001 (the unit's control port)
Line ending	"! " (hex `21 0D`), 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 8001.
2. Add one command per row of section 3: its string, then the line ending (hex `21 0D`).
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

208 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 0D`
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 0D`
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 0D`
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 0D`
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 0D`
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 0D`

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 0D`
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 0D`
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 0D`
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 0D`
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 0D`
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 0D`
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 0D`
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 0D`
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 0D`
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 0D`
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 0D`
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 0D`
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 0D`
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 0D`
21	Video wall: Wall layout = 2x2	`s tw mode 1`	`73 20 74 77 20 6D 6F 64 65 20 31 21 0D`
22	Video wall: Wall layout = 2x1	`s tw mode 2`	`73 20 74 77 20 6D 6F 64 65 20 32 21 0D`
23	Video wall: Wall layout = 2x1-2	`s tw mode 3`	`73 20 74 77 20 6D 6F 64 65 20 33 21 0D`
24	Video wall: Wall layout = 1x2	`s tw mode 4`	`73 20 74 77 20 6D 6F 64 65 20 34 21 0D`
25	Video wall: Wall layout = 1x2-2	`s tw mode 5`	`73 20 74 77 20 6D 6F 64 65 20 35 21 0D`
26	Video wall: Wall layout = 3x1	`s tw mode 6`	`73 20 74 77 20 6D 6F 64 65 20 36 21 0D`
27	Video wall: Wall layout = 4x1	`s tw mode 7`	`73 20 74 77 20 6D 6F 64 65 20 37 21 0D`
28	Video wall: Wall layout = 1x3	`s tw mode 8`	`73 20 74 77 20 6D 6F 64 65 20 38 21 0D`
29	Video wall: Wall layout = 1x4	`s tw mode 9`	`73 20 74 77 20 6D 6F 64 65 20 39 21 0D`
30	Video wall: Wall layout = Matrix (no wall)	`s tw mode 10`	`73 20 74 77 20 6D 6F 64 65 20 31 30 21 0D`
31	Video wall: All outputs: Source = Input 1	`s tw group 0 input 1`	`73 20 74 77 20 67 72 6F 75 70 20 30 20 69 6E 70 75 74 20 31 21 0D`
32	Video wall: All outputs: Source = Input 2	`s tw group 0 input 2`	`73 20 74 77 20 67 72 6F 75 70 20 30 20 69 6E 70 75 74 20 32 21 0D`
33	Video wall: All outputs: Source = Input 3	`s tw group 0 input 3`	`73 20 74 77 20 67 72 6F 75 70 20 30 20 69 6E 70 75 74 20 33 21 0D`

34	Video wall: All outputs: Source = Input 4	`s tw group 0 input 4`	`73 20 74 77 20 67 72 6F 75 70 20 30 20 69 6E 70 75 74 20 34 21 0D`
35	Video wall: Output 1: Source = Input 1	`s tw group 1 input 1`	`73 20 74 77 20 67 72 6F 75 70 20 31 20 69 6E 70 75 74 20 31 21 0D`
36	Video wall: Output 1: Source = Input 2	`s tw group 1 input 2`	`73 20 74 77 20 67 72 6F 75 70 20 31 20 69 6E 70 75 74 20 32 21 0D`
37	Video wall: Output 1: Source = Input 3	`s tw group 1 input 3`	`73 20 74 77 20 67 72 6F 75 70 20 31 20 69 6E 70 75 74 20 33 21 0D`
38	Video wall: Output 1: Source = Input 4	`s tw group 1 input 4`	`73 20 74 77 20 67 72 6F 75 70 20 31 20 69 6E 70 75 74 20 34 21 0D`
39	Video wall: Output 2: Source = Input 1	`s tw group 2 input 1`	`73 20 74 77 20 67 72 6F 75 70 20 32 20 69 6E 70 75 74 20 31 21 0D`
40	Video wall: Output 2: Source = Input 2	`s tw group 2 input 2`	`73 20 74 77 20 67 72 6F 75 70 20 32 20 69 6E 70 75 74 20 32 21 0D`
41	Video wall: Output 2: Source = Input 3	`s tw group 2 input 3`	`73 20 74 77 20 67 72 6F 75 70 20 32 20 69 6E 70 75 74 20 33 21 0D`
42	Video wall: Output 2: Source = Input 4	`s tw group 2 input 4`	`73 20 74 77 20 67 72 6F 75 70 20 32 20 69 6E 70 75 74 20 34 21 0D`
43	Video wall: Output 3: Source = Input 1	`s tw group 3 input 1`	`73 20 74 77 20 67 72 6F 75 70 20 33 20 69 6E 70 75 74 20 31 21 0D`
44	Video wall: Output 3: Source = Input 2	`s tw group 3 input 2`	`73 20 74 77 20 67 72 6F 75 70 20 33 20 69 6E 70 75 74 20 32 21 0D`
45	Video wall: Output 3: Source = Input 3	`s tw group 3 input 3`	`73 20 74 77 20 67 72 6F 75 70 20 33 20 69 6E 70 75 74 20 33 21 0D`
46	Video wall: Output 3: Source = Input 4	`s tw group 3 input 4`	`73 20 74 77 20 67 72 6F 75 70 20 33 20 69 6E 70 75 74 20 34 21 0D`
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48	Video wall: Output 4: Source = Input 2	`s tw group 4 input 2`	`73 20 74 77 20 67 72 6F 75 70 20 34 20 69 6E 70 75 74 20 32 21 0D`
49	Video wall: Output 4: Source = Input 3	`s tw group 4 input 3`	`73 20 74 77 20 67 72 6F 75 70 20 34 20 69 6E 70 75 74 20 33 21 0D`
50	Video wall: Output 4: Source = Input 4	`s tw group 4 input 4`	`73 20 74 77 20 67 72 6F 75 70 20 34 20 69 6E 70 75 74 20 34 21 0D`
51	Picture: Output 1: Send a picture on	`s output 1 stream 1`	`73 20 6F 75 74 70 75 74 20 31 20 73 74 72 65 61 6D 20 31 21 0D`
52	Picture: Output 1: Send a picture off	`s output 1 stream 0`	`73 20 6F 75 74 70 75 74 20 31 20 73 74 72 65 61 6D 20 30 21 0D`
53	Picture: Output 2: Send a picture on	`s output 2 stream 1`	`73 20 6F 75 74 70 75 74 20 32 20 73 74 72 65 61 6D 20 31 21 0D`
54	Picture: Output 2: Send a picture off	`s output 2 stream 0`	`73 20 6F 75 74 70 75 74 20 32 20 73 74 72 65 61 6D 20 30 21 0D`
55	Picture: Output 3: Send a picture on	`s output 3 stream 1`	`73 20 6F 75 74 70 75 74 20 33 20 73 74 72 65 61 6D 20 31 21 0D`
56	Picture: Output 3: Send a picture off	`s output 3 stream 0`	`73 20 6F 75 74 70 75 74 20 33 20 73 74 72 65 61 6D 20 30 21 0D`
57	Picture: Output 4: Send a picture on	`s output 4 stream 1`	`73 20 6F 75 74 70 75 74 20 34 20 73 74 72 65 61 6D 20 31 21 0D`

58	Picture: Output 4: Send a picture off	`s output 4 stream 0`	`73 20 6F 75 74 70 75 74 20 34 20 73 74 72 65 61 6D 20 30 21 0D`
59	Video: Output 1: Output resolution = 4096x2160p30	`s output 1 res 1`	`73 20 6F 75 74 70 75 74 20 31 20 72 65 73 20 31 21 0D`
60	Video: Output 1: Output resolution = 3840x2160p30	`s output 1 res 2`	`73 20 6F 75 74 70 75 74 20 31 20 72 65 73 20 32 21 0D`
61	Video: Output 1: Output resolution = 1920x1200p60	`s output 1 res 3`	`73 20 6F 75 74 70 75 74 20 31 20 72 65 73 20 33 21 0D`
62	Video: Output 1: Output resolution = 1920x1080p60	`s output 1 res 4`	`73 20 6F 75 74 70 75 74 20 31 20 72 65 73 20 34 21 0D`
63	Video: Output 1: Output resolution = 1920x1080p50	`s output 1 res 5`	`73 20 6F 75 74 70 75 74 20 31 20 72 65 73 20 35 21 0D`
64	Video: Output 1: Output resolution = 1600x1200p60	`s output 1 res 6`	`73 20 6F 75 74 70 75 74 20 31 20 72 65 73 20 36 21 0D`
65	Video: Output 1: Output resolution = 1600x900p60	`s output 1 res 7`	`73 20 6F 75 74 70 75 74 20 31 20 72 65 73 20 37 21 0D`
66	Video: Output 1: Output resolution = 1440x900p60	`s output 1 res 8`	`73 20 6F 75 74 70 75 74 20 31 20 72 65 73 20 38 21 0D`
67	Video: Output 1: Output resolution = 1360x768p60	`s output 1 res 9`	`73 20 6F 75 74 70 75 74 20 31 20 72 65 73 20 39 21 0D`
68	Video: Output 1: Output resolution = 1280x1024p60	`s output 1 res 10`	`73 20 6F 75 74 70 75 74 20 31 20 72 65 73 20 31 30 21 0D`
69	Video: Output 1: Output resolution = 1280x720p60	`s output 1 res 11`	`73 20 6F 75 74 70 75 74 20 31 20 72 65 73 20 31 31 21 0D`
70	Video: Output 1: Output resolution = 1280x720p50	`s output 1 res 12`	`73 20 6F 75 74 70 75 74 20 31 20 72 65 73 20 31 32 21 0D`
71	Video: Output 1: Output resolution = 1024x768p60	`s output 1 res 13`	`73 20 6F 75 74 70 75 74 20 31 20 72 65 73 20 31 33 21 0D`
72	Video: Output 2: Output resolution = 4096x2160p30	`s output 2 res 1`	`73 20 6F 75 74 70 75 74 20 32 20 72 65 73 20 31 21 0D`
73	Video: Output 2: Output resolution = 3840x2160p30	`s output 2 res 2`	`73 20 6F 75 74 70 75 74 20 32 20 72 65 73 20 32 21 0D`
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83	Video: Output 2: Output resolution = 1280x720p50	`s output 2 res 12`	`73 20 6F 75 74 70 75 74 20 32 20 72 65 73 20 31 32 21 0D`
84	Video: Output 2: Output resolution = 1024x768p60	`s output 2 res 13`	`73 20 6F 75 74 70 75 74 20 32 20 72 65 73 20 31 33 21 0D`
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98	Video: Output 4: Output resolution = 4096x2160p30	`s output 4 res 1`	`73 20 6F 75 74 70 75 74 20 34 20 72 65 73 20 31 21 0D`
99	Video: Output 4: Output resolution = 3840x2160p30	`s output 4 res 2`	`73 20 6F 75 74 70 75 74 20 34 20 72 65 73 20 32 21 0D`
100	Video: Output 4: Output resolution = 1920x1200p60	`s output 4 res 3`	`73 20 6F 75 74 70 75 74 20 34 20 72 65 73 20 33 21 0D`
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105	Video: Output 4: Output resolution = 1440x900p60	`s output 4 res 8`	`73 20 6F 75 74 70 75 74 20 34 20 72 65 73 20 38 21 0D`

106	Video: Output 4: Output resolution = 1360x768p60	`s output 4 res 9`	`73 20 6F 75 74 70 75 74 20 34 20 72 65 73 20 39 21 0D`
107	Video: Output 4: Output resolution = 1280x1024p60	`s output 4 res 10`	`73 20 6F 75 74 70 75 74 20 34 20 72 65 73 20 31 30 21 0D`
108	Video: Output 4: Output resolution = 1280x720p60	`s output 4 res 11`	`73 20 6F 75 74 70 75 74 20 34 20 72 65 73 20 31 31 21 0D`
109	Video: Output 4: Output resolution = 1280x720p50	`s output 4 res 12`	`73 20 6F 75 74 70 75 74 20 34 20 72 65 73 20 31 32 21 0D`
110	Video: Output 4: Output resolution = 1024x768p60	`s output 4 res 13`	`73 20 6F 75 74 70 75 74 20 34 20 72 65 73 20 31 33 21 0D`
111	Video: Output 1: Colour space = RGB 4:4:4	`s output 1 csc 1`	`73 20 6F 75 74 70 75 74 20 31 20 63 73 63 20 31 21 0D`
112	Video: Output 1: Colour space = YCbCr 4:4:4	`s output 1 csc 2`	`73 20 6F 75 74 70 75 74 20 31 20 63 73 63 20 32 21 0D`
113	Video: Output 1: Colour space = YCbCr 4:2:2	`s output 1 csc 3`	`73 20 6F 75 74 70 75 74 20 31 20 63 73 63 20 33 21 0D`
114	Video: Output 2: Colour space = RGB 4:4:4	`s output 2 csc 1`	`73 20 6F 75 74 70 75 74 20 32 20 63 73 63 20 31 21 0D`
115	Video: Output 2: Colour space = YCbCr 4:4:4	`s output 2 csc 2`	`73 20 6F 75 74 70 75 74 20 32 20 63 73 63 20 32 21 0D`
116	Video: Output 2: Colour space = YCbCr 4:2:2	`s output 2 csc 3`	`73 20 6F 75 74 70 75 74 20 32 20 63 73 63 20 33 21 0D`
117	Video: Output 3: Colour space = RGB 4:4:4	`s output 3 csc 1`	`73 20 6F 75 74 70 75 74 20 33 20 63 73 63 20 31 21 0D`
118	Video: Output 3: Colour space = YCbCr 4:4:4	`s output 3 csc 2`	`73 20 6F 75 74 70 75 74 20 33 20 63 73 63 20 32 21 0D`
119	Video: Output 3: Colour space = YCbCr 4:2:2	`s output 3 csc 3`	`73 20 6F 75 74 70 75 74 20 33 20 63 73 63 20 33 21 0D`
120	Video: Output 4: Colour space = RGB 4:4:4	`s output 4 csc 1`	`73 20 6F 75 74 70 75 74 20 34 20 63 73 63 20 31 21 0D`
121	Video: Output 4: Colour space = YCbCr 4:4:4	`s output 4 csc 2`	`73 20 6F 75 74 70 75 74 20 34 20 63 73 63 20 32 21 0D`
122	Video: Output 4: Colour space = YCbCr 4:2:2	`s output 4 csc 3`	`73 20 6F 75 74 70 75 74 20 34 20 63 73 63 20 33 21 0D`
123	Video: Input 1: EDID = 4K30 4:4:4, stereo	`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 0D`
124	Video: Input 1: EDID = 4K30 4:4:4, 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 0D`
125	Video: Input 1: EDID = 1080p, stereo	`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 0D`
126	Video: Input 1: EDID = 1080p, Dolby/DTS 5.1	`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 0D`
127	Video: Input 1: EDID = 1920x1200, stereo	`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 0D`
128	Video: Input 1: EDID = 1360x768, stereo	`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 0D`
129	Video: Input 1: EDID = 1024x768, stereo	`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 0D`

130	Video: Input 1: EDID = Copy from output 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 0D`
131	Video: Input 1: EDID = Copy from output 2	`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 0D`
132	Video: Input 1: EDID = Copy from output 3	`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 0D`
133	Video: Input 1: EDID = Copy from output 4	`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 0D`
134	Video: Input 2: EDID = 4K30 4:4:4, stereo	`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 0D`
135	Video: Input 2: EDID = 4K30 4:4:4, 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 0D`
136	Video: Input 2: EDID = 1080p, stereo	`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 0D`
137	Video: Input 2: EDID = 1080p, Dolby/DTS 5.1	`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 0D`
138	Video: Input 2: EDID = 1920x1200, stereo	`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 0D`
139	Video: Input 2: EDID = 1360x768, stereo	`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 0D`
140	Video: Input 2: EDID = 1024x768, stereo	`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 0D`
141	Video: Input 2: EDID = Copy from output 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 0D`
142	Video: Input 2: EDID = Copy from output 2	`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 0D`
143	Video: Input 2: EDID = Copy from output 3	`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 0D`
144	Video: Input 2: EDID = Copy from output 4	`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 0D`
145	Video: Input 3: EDID = 4K30 4:4:4, stereo	`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 0D`
146	Video: Input 3: EDID = 4K30 4:4:4, 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 0D`
147	Video: Input 3: EDID = 1080p, stereo	`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 0D`
148	Video: Input 3: EDID = 1080p, Dolby/DTS 5.1	`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 0D`
149	Video: Input 3: EDID = 1920x1200, stereo	`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 0D`
150	Video: Input 3: EDID = 1360x768, stereo	`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 0D`
151	Video: Input 3: EDID = 1024x768, stereo	`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 0D`
152	Video: Input 3: EDID = Copy from output 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 0D`
153	Video: Input 3: EDID = Copy from output 2	`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 0D`

154	Video: Input 3: EDID = Copy from output 3	`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 0D`
155	Video: Input 3: EDID = Copy from output 4	`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 0D`
156	Video: Input 4: EDID = 4K30 4:4:4, stereo	`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 0D`
157	Video: Input 4: EDID = 4K30 4:4:4, 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 0D`
158	Video: Input 4: EDID = 1080p, stereo	`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 0D`
159	Video: Input 4: EDID = 1080p, Dolby/DTS 5.1	`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 0D`
160	Video: Input 4: EDID = 1920x1200, stereo	`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 0D`
161	Video: Input 4: EDID = 1360x768, stereo	`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 0D`
162	Video: Input 4: EDID = 1024x768, stereo	`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 0D`
163	Video: Input 4: EDID = Copy from output 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 0D`
164	Video: Input 4: EDID = Copy from output 2	`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 0D`
165	Video: Input 4: EDID = Copy from output 3	`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 0D`
166	Video: Input 4: EDID = Copy from output 4	`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 0D`
167	Video wall: Output 1: Mirror = Off	`s output 1 mirror 0`	`73 20 6F 75 74 70 75 74 20 31 20 6D 69 72 72 6F 72 20 30 21 0D`
168	Video wall: Output 1: Mirror = Flip left-right	`s output 1 mirror 1`	`73 20 6F 75 74 70 75 74 20 31 20 6D 69 72 72 6F 72 20 31 21 0D`
169	Video wall: Output 1: Mirror = Flip upside down	`s output 1 mirror 2`	`73 20 6F 75 74 70 75 74 20 31 20 6D 69 72 72 6F 72 20 32 21 0D`
170	Video wall: Output 1: Mirror = Both	`s output 1 mirror 3`	`73 20 6F 75 74 70 75 74 20 31 20 6D 69 72 72 6F 72 20 33 21 0D`
171	Video wall: Output 2: Mirror = Off	`s output 2 mirror 0`	`73 20 6F 75 74 70 75 74 20 32 20 6D 69 72 72 6F 72 20 30 21 0D`
172	Video wall: Output 2: Mirror = Flip left-right	`s output 2 mirror 1`	`73 20 6F 75 74 70 75 74 20 32 20 6D 69 72 72 6F 72 20 31 21 0D`
173	Video wall: Output 2: Mirror = Flip upside down	`s output 2 mirror 2`	`73 20 6F 75 74 70 75 74 20 32 20 6D 69 72 72 6F 72 20 32 21 0D`
174	Video wall: Output 2: Mirror = Both	`s output 2 mirror 3`	`73 20 6F 75 74 70 75 74 20 32 20 6D 69 72 72 6F 72 20 33 21 0D`
175	Video wall: Output 3: Mirror = Off	`s output 3 mirror 0`	`73 20 6F 75 74 70 75 74 20 33 20 6D 69 72 72 6F 72 20 30 21 0D`
176	Video wall: Output 3: Mirror = Flip left-right	`s output 3 mirror 1`	`73 20 6F 75 74 70 75 74 20 33 20 6D 69 72 72 6F 72 20 31 21 0D`
177	Video wall: Output 3: Mirror = Flip upside down	`s output 3 mirror 2`	`73 20 6F 75 74 70 75 74 20 33 20 6D 69 72 72 6F 72 20 32 21 0D`

178	Video wall: Output 3: Mirror = Both	`s output 3 mirror 3`	`73 20 6F 75 74 70 75 74 20 33 20 6D 69 72 72 6F 72 20 33 21 0D`
179	Video wall: Output 4: Mirror = Off	`s output 4 mirror 0`	`73 20 6F 75 74 70 75 74 20 34 20 6D 69 72 72 6F 72 20 30 21 0D`
180	Video wall: Output 4: Mirror = Flip left-right	`s output 4 mirror 1`	`73 20 6F 75 74 70 75 74 20 34 20 6D 69 72 72 6F 72 20 31 21 0D`
181	Video wall: Output 4: Mirror = Flip upside down	`s output 4 mirror 2`	`73 20 6F 75 74 70 75 74 20 34 20 6D 69 72 72 6F 72 20 32 21 0D`
182	Video wall: Output 4: Mirror = Both	`s output 4 mirror 3`	`73 20 6F 75 74 70 75 74 20 34 20 6D 69 72 72 6F 72 20 33 21 0D`
183	Video wall: Bezel, left-right = 0	`s tw h bezel 0`	`73 20 74 77 20 68 20 62 65 7A 65 6C 20 30 21 0D`
184	Video wall: Bezel, left-right = 1	`s tw h bezel 1`	`73 20 74 77 20 68 20 62 65 7A 65 6C 20 31 21 0D`
185	Video wall: Bezel, left-right = 2	`s tw h bezel 2`	`73 20 74 77 20 68 20 62 65 7A 65 6C 20 32 21 0D`
186	Video wall: Bezel, left-right = 3	`s tw h bezel 3`	`73 20 74 77 20 68 20 62 65 7A 65 6C 20 33 21 0D`
187	Video wall: Bezel, left-right = 4	`s tw h bezel 4`	`73 20 74 77 20 68 20 62 65 7A 65 6C 20 34 21 0D`
188	Video wall: Bezel, left-right = 5	`s tw h bezel 5`	`73 20 74 77 20 68 20 62 65 7A 65 6C 20 35 21 0D`
189	Video wall: Bezel, left-right = 6	`s tw h bezel 6`	`73 20 74 77 20 68 20 62 65 7A 65 6C 20 36 21 0D`
190	Video wall: Bezel, left-right = 7	`s tw h bezel 7`	`73 20 74 77 20 68 20 62 65 7A 65 6C 20 37 21 0D`
191	Video wall: Bezel, left-right = 8	`s tw h bezel 8`	`73 20 74 77 20 68 20 62 65 7A 65 6C 20 38 21 0D`
192	Video wall: Bezel, left-right = 9	`s tw h bezel 9`	`73 20 74 77 20 68 20 62 65 7A 65 6C 20 39 21 0D`
193	Video wall: Bezel, left-right = 10	`s tw h bezel 10`	`73 20 74 77 20 68 20 62 65 7A 65 6C 20 31 30 21 0D`
194	Video wall: Bezel, top-bottom = 0	`s tw v bezel 0`	`73 20 74 77 20 76 20 62 65 7A 65 6C 20 30 21 0D`
195	Video wall: Bezel, top-bottom = 1	`s tw v bezel 1`	`73 20 74 77 20 76 20 62 65 7A 65 6C 20 31 21 0D`
196	Video wall: Bezel, top-bottom = 2	`s tw v bezel 2`	`73 20 74 77 20 76 20 62 65 7A 65 6C 20 32 21 0D`
197	Video wall: Bezel, top-bottom = 3	`s tw v bezel 3`	`73 20 74 77 20 76 20 62 65 7A 65 6C 20 33 21 0D`
198	Video wall: Bezel, top-bottom = 4	`s tw v bezel 4`	`73 20 74 77 20 76 20 62 65 7A 65 6C 20 34 21 0D`
199	Video wall: Bezel, top-bottom = 5	`s tw v bezel 5`	`73 20 74 77 20 76 20 62 65 7A 65 6C 20 35 21 0D`
200	Video wall: Bezel, top-bottom = 6	`s tw v bezel 6`	`73 20 74 77 20 76 20 62 65 7A 65 6C 20 36 21 0D`
201	Video wall: Bezel, top-bottom = 7	`s tw v bezel 7`	`73 20 74 77 20 76 20 62 65 7A 65 6C 20 37 21 0D`

202	**Video wall: Bezel, top-bottom = 8**	`s tw v bezel 8`	`73 20 74 77 20 76 20 62 65 7A 65 6C 20 38 21 0D`
203	**Video wall: Bezel, top-bottom = 9**	`s tw v bezel 9`	`73 20 74 77 20 76 20 62 65 7A 65 6C 20 39 21 0D`
204	**Video wall: Bezel, top-bottom = 10**	`s tw v bezel 10`	`73 20 74 77 20 76 20 62 65 7A 65 6C 20 31 30 21 0D`
205	**System: Beep on**	`s beep 1`	`73 20 62 65 65 70 20 31 21 0D`
206	**System: Beep off**	`s beep 0`	`73 20 62 65 65 70 20 30 21 0D`
207	**System: Lock the front panel on**	`s lock 1`	`73 20 6C 6F 63 6B 20 31 21 0D`
208	**System: Lock the front panel off**	`s lock 0`	`73 20 6C 6F 63 6B 20 30 21 0D`

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 status`	`72 20 73 74 61 74 75 73 21 0D`	Power, Source, Signal, Send a picture, Output resolution, Colour space, Mirror, EDID, Wall layout, Bezel, left-right, Bezel, top-bottom, Beep, Lock the front panel
2	`r tw group 0 source`	`72 20 74 77 20 67 72 6F 75 70 20 30 20 73 6F 75 72 63 65 21 0D`	Source
3	`r fw version`	`72 20 66 77 20 76 65 72 73 69 6F 6E 21 0D`	Firmware

5. TROUBLESHOOTING

Nothing happens.
Check the unit's IP address and that TCP 8001 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.