AVO-IP265-STREAM Tesira Command Sheet

For Tesira Command String blocks · Version 1.0.2

Every command the AVO-IP265-STREAM 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-AVO-IP265-STREAM-Tesira-Command-Sheet-1.0.2.csv` for copying.

> **Before you start —** the Tesira server must reach the AVO-IP265-STREAM 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

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

#	Command	String	Bytes (hex, with the line ending)
1	**Delivery: Main stream as HLS (web players on the network) on**	`STMR SETMAINHLSENABLE_ON`	`53 54 4D 52 20 53 45 54 4D 41 49 4E 48 4C 53 45 4E 41 42 4C 45 5F 4F 4E 21`
2	**Delivery: Main stream as HLS (web players on the network) off**	`STMR SETMAINHLSENABLE_OFF`	`53 54 4D 52 20 53 45 54 4D 41 49 4E 48 4C 53 45 4E 41 42 4C 45 5F 4F 46 46 21`
3	**Delivery: Second stream as HLS on**	`STMR SETSECONDHLSENABLE_ON`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 48 4C 53 45 4E 41 42 4C 45 5F 4F 4E 21`
4	**Delivery: Second stream as HLS off**	`STMR SETSECONDHLSENABLE_OFF`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 48 4C 53 45 4E 41 42 4C 45 5F 4F 46 46 21`
5	**Delivery: RTSP (one viewer each) = On**	`STMR SETRTSPUNICAST_ENABLE`	`53 54 4D 52 20 53 45 54 52 54 53 50 55 4E 49 43 41 53 54 5F 45 4E 41 42 4C 45 21`
6	**Delivery: RTSP (one viewer each) = Off**	`STMR SETRTSPUNICAST_DISABLE`	`53 54 4D 52 20 53 45 54 52 54 53 50 55 4E 49 43 41 53 54 5F 44 49 53 41 42 4C 45 21`

7	Delivery: RTSP multicast = On	STMR SETRTSPMULTICAST_ENABLE	53 54 4D 52 20 53 45 54 52 54 53 50 4D 55 4C 54 49 43 41 53 54 5F 45 4E 41 42 4C 45 21
8	Delivery: RTSP multicast = Off	STMR SETRTSPMULTICAST_DISABLE	53 54 4D 52 20 53 45 54 52 54 53 50 4D 55 4C 54 49 43 41 53 54 5F 44 49 53 41 42 4C 45 21
9	Delivery: TS multicast = On	STMR SETTSMULTICAST_ENABLE	53 54 4D 52 20 53 45 54 54 53 4D 55 4C 54 49 43 41 53 54 5F 45 4E 41 42 4C 45 21
10	Delivery: TS multicast = Off	STMR SETTSMULTICAST_DISABLE	53 54 4D 52 20 53 45 54 54 53 4D 55 4C 54 49 43 41 53 54 5F 44 49 53 41 42 4C 45 21
11	Delivery: Audio-only multicast = On	STMR SETAUDIOMULTICAST_ENABLE	53 54 4D 52 20 53 45 54 41 55 44 49 4F 4D 55 4C 54 49 43 41 53 54 5F 45 4E 41 42 4C 45 21
12	Delivery: Audio-only multicast = Off	STMR SETAUDIOMULTICAST_DISABLE	53 54 4D 52 20 53 45 54 41 55 44 49 4F 4D 55 4C 54 49 43 41 53 54 5F 44 49 53 41 42 4C 45 21
13	Delivery: TS multicast port = {level} (1 to 65535)	STMR SETTSMULTICASTPORT_{level}	the level in place of {level}
14	Delivery: TS multicast port = 1	STMR SETTSMULTICASTPORT_1	53 54 4D 52 20 53 45 54 54 53 4D 55 4C 54 49 43 41 53 54 50 4F 52 54 5F 31 21
15	Delivery: TS multicast port = 32768	STMR SETTSMULTICASTPORT_32768	53 54 4D 52 20 53 45 54 54 53 4D 55 4C 54 49 43 41 53 54 50 4F 52 54 5F 33 32 37 36 38 21
16	Delivery: TS multicast port = 65535	STMR SETTSMULTICASTPORT_65535	53 54 4D 52 20 53 45 54 54 53 4D 55 4C 54 49 43 41 53 54 50 4F 52 54 5F 36 35 35 33 35 21
17	Delivery: Channel number = {level} (0 to 999)	STMR SETCHANNEL_{level}	the level in place of {level}
18	Delivery: Channel number = 0	STMR SETCHANNEL_0	53 54 4D 52 20 53 45 54 43 48 41 4E 4E 45 4C 5F 30 21
19	Delivery: Channel number = 500	STMR SETCHANNEL_500	53 54 4D 52 20 53 45 54 43 48 41 4E 4E 45 4C 5F 35 30 30 21
20	Delivery: Channel number = 999	STMR SETCHANNEL_999	53 54 4D 52 20 53 45 54 43 48 41 4E 4E 45 4C 5F 39 39 39 21
21	Main stream: Codec = H.265	STMR SETMAINENCODERTYPE_H265	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 54 59 50 45 5F 48 32 36 35 21
22	Main stream: Codec = H.264	STMR SETMAINENCODERTYPE_H264	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 54 59 50 45 5F 48 32 36 34 21
23	Main stream: Resolution = Same as input	STMR SETMAINENCODERRESOLUTION_SAME	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 52 45 53 4F 4C 55 54 49 4F 4E 5F 53 41 4D 45 21
24	Main stream: Resolution = 2160p	STMR SETMAINENCODERRESOLUTION_2160	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 52 45 53 4F 4C 55 54 49 4F 4E 5F 32 31 36 30 21
25	Main stream: Resolution = 1080p	STMR SETMAINENCODERRESOLUTION_1080	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 52 45 53 4F 4C 55 54 49 4F 4E 5F 31 30 38 30 21
26	Main stream: Resolution = 720p	STMR SETMAINENCODERRESOLUTION_720	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 52 45 53 4F 4C 55 54 49 4F 4E 5F 37 32 30 21
27	Main stream: Bitrate (kb/s) = {level} (32 to 82000)	STMR SETMAINENCODERBITRATE_{level}	the level in place of {level}
28	Main stream: Bitrate (kb/s) = 32	STMR SETMAINENCODERBITRATE_32	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 42 49 54 52 41 54 45 5F 33 32 21

29	Main stream: Bitrate (kb/s) = 41016	STMR SETMAINENCODERBITRATE_41016	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 42 49 54 52 41 54 45 5F 34 31 30 31 36 21
30	Main stream: Bitrate (kb/s) = 82000	STMR SETMAINENCODERBITRATE_82000	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 42 49 54 52 41 54 45 5F 38 32 30 30 30 21
31	Main stream: Bitrate kind = Variable	STMR SETMAINENCODERBITRATECONTROL_VBR	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 42 49 54 52 41 54 45 43 4F 4E 54 52 4F 4C 5F 56 42 52 21
32	Main stream: Bitrate kind = Constant	STMR SETMAINENCODERBITRATECONTROL_CBR	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 42 49 54 52 41 54 45 43 4F 4E 54 52 4F 4C 5F 43 42 52 21
33	Main stream: Frames per second = 5	STMR SETMAINENCODERFRAMERATE_5	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 35 21
34	Main stream: Frames per second = 6	STMR SETMAINENCODERFRAMERATE_6	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 36 21
35	Main stream: Frames per second = 7	STMR SETMAINENCODERFRAMERATE_7	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 37 21
36	Main stream: Frames per second = 8	STMR SETMAINENCODERFRAMERATE_8	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 38 21
37	Main stream: Frames per second = 9	STMR SETMAINENCODERFRAMERATE_9	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 39 21
38	Main stream: Frames per second = 10	STMR SETMAINENCODERFRAMERATE_10	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 30 21
39	Main stream: Frames per second = 11	STMR SETMAINENCODERFRAMERATE_11	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 31 21
40	Main stream: Frames per second = 12	STMR SETMAINENCODERFRAMERATE_12	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 32 21
41	Main stream: Frames per second = 13	STMR SETMAINENCODERFRAMERATE_13	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 33 21
42	Main stream: Frames per second = 14	STMR SETMAINENCODERFRAMERATE_14	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 34 21
43	Main stream: Frames per second = 15	STMR SETMAINENCODERFRAMERATE_15	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 35 21
44	Main stream: Frames per second = 16	STMR SETMAINENCODERFRAMERATE_16	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 36 21
45	Main stream: Frames per second = 17	STMR SETMAINENCODERFRAMERATE_17	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 37 21

46	Main stream: Frames per second = 18	STMR SETMAINENCODERFRAMERATE_18	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 38 21
47	Main stream: Frames per second = 19	STMR SETMAINENCODERFRAMERATE_19	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 39 21
48	Main stream: Frames per second = 20	STMR SETMAINENCODERFRAMERATE_20	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 30 21
49	Main stream: Frames per second = 21	STMR SETMAINENCODERFRAMERATE_21	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 31 21
50	Main stream: Frames per second = 22	STMR SETMAINENCODERFRAMERATE_22	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 32 21
51	Main stream: Frames per second = 23	STMR SETMAINENCODERFRAMERATE_23	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 33 21
52	Main stream: Frames per second = 24	STMR SETMAINENCODERFRAMERATE_24	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 34 21
53	Main stream: Frames per second = 25	STMR SETMAINENCODERFRAMERATE_25	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 35 21
54	Main stream: Frames per second = 26	STMR SETMAINENCODERFRAMERATE_26	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 36 21
55	Main stream: Frames per second = 27	STMR SETMAINENCODERFRAMERATE_27	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 37 21
56	Main stream: Frames per second = 28	STMR SETMAINENCODERFRAMERATE_28	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 38 21
57	Main stream: Frames per second = 29	STMR SETMAINENCODERFRAMERATE_29	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 39 21
58	Main stream: Frames per second = 30	STMR SETMAINENCODERFRAMERATE_30	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 33 30 21
59	Main stream: Frames per second = 31	STMR SETMAINENCODERFRAMERATE_31	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 33 31 21
60	Main stream: Frames per second = 32	STMR SETMAINENCODERFRAMERATE_32	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 33 32 21
61	Main stream: Frames per second = 33	STMR SETMAINENCODERFRAMERATE_33	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 33 33 21
62	Main stream: Frames per second = 34	STMR SETMAINENCODERFRAMERATE_34	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 33 34 21

63	Main stream: Frames per second = 35	STMR SETMAINENCODERFRAMERATE_35	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 33 35 21
64	Main stream: Frames per second = 36	STMR SETMAINENCODERFRAMERATE_36	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 33 36 21
65	Main stream: Frames per second = 37	STMR SETMAINENCODERFRAMERATE_37	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 33 37 21
66	Main stream: Frames per second = 38	STMR SETMAINENCODERFRAMERATE_38	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 33 38 21
67	Main stream: Frames per second = 39	STMR SETMAINENCODERFRAMERATE_39	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 33 39 21
68	Main stream: Frames per second = 40	STMR SETMAINENCODERFRAMERATE_40	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 34 30 21
69	Main stream: Frames per second = 41	STMR SETMAINENCODERFRAMERATE_41	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 34 31 21
70	Main stream: Frames per second = 42	STMR SETMAINENCODERFRAMERATE_42	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 34 32 21
71	Main stream: Frames per second = 43	STMR SETMAINENCODERFRAMERATE_43	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 34 33 21
72	Main stream: Frames per second = 44	STMR SETMAINENCODERFRAMERATE_44	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 34 34 21
73	Main stream: Frames per second = 45	STMR SETMAINENCODERFRAMERATE_45	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 34 35 21
74	Main stream: Frames per second = 46	STMR SETMAINENCODERFRAMERATE_46	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 34 36 21
75	Main stream: Frames per second = 47	STMR SETMAINENCODERFRAMERATE_47	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 34 37 21
76	Main stream: Frames per second = 48	STMR SETMAINENCODERFRAMERATE_48	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 34 38 21
77	Main stream: Frames per second = 49	STMR SETMAINENCODERFRAMERATE_49	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 34 39 21
78	Main stream: Frames per second = 50	STMR SETMAINENCODERFRAMERATE_50	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 35 30 21
79	Main stream: Frames per second = 51	STMR SETMAINENCODERFRAMERATE_51	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 35 31 21

80	Main stream: Frames per second = 52	STMR SETMAINENCODERFRAMERATE_52	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 35 32 21
81	Main stream: Frames per second = 53	STMR SETMAINENCODERFRAMERATE_53	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 35 33 21
82	Main stream: Frames per second = 54	STMR SETMAINENCODERFRAMERATE_54	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 35 34 21
83	Main stream: Frames per second = 55	STMR SETMAINENCODERFRAMERATE_55	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 35 35 21
84	Main stream: Frames per second = 56	STMR SETMAINENCODERFRAMERATE_56	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 35 36 21
85	Main stream: Frames per second = 57	STMR SETMAINENCODERFRAMERATE_57	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 35 37 21
86	Main stream: Frames per second = 58	STMR SETMAINENCODERFRAMERATE_58	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 35 38 21
87	Main stream: Frames per second = 59	STMR SETMAINENCODERFRAMERATE_59	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 35 39 21
88	Main stream: Frames per second = 60	STMR SETMAINENCODERFRAMERATE_60	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 36 30 21
89	Main stream: Key frame every (frames) = {level} (5 to 300)	STMR SETMAINENCODERGOP_{level}	the level in place of {level}
90	Main stream: Key frame every (frames) = 5	STMR SETMAINENCODERGOP_5	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 47 4F 50 5F 35 21
91	Main stream: Key frame every (frames) = 153	STMR SETMAINENCODERGOP_153	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 47 4F 50 5F 31 35 33 21
92	Main stream: Key frame every (frames) = 300	STMR SETMAINENCODERGOP_300	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 47 4F 50 5F 33 30 30 21
93	Main stream: Profile = Baseline	STMR SETMAINENCODERLEVEL_BASELINE	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 4C 45 56 45 4C 5F 42 41 53 45 4C 49 4E 45 21
94	Main stream: Profile = Main	STMR SETMAINENCODERLEVEL_MAIN	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 4C 45 56 45 4C 5F 4D 41 49 4E 21
95	Main stream: Profile = High	STMR SETMAINENCODERLEVEL_HIGH	53 54 4D 52 20 53 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 4C 45 56 45 4C 5F 48 49 47 48 21
96	Second stream: Resolution = 1080p	STMR SETSECONDENCODERRESOLUTION_1080	53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 52 45 53 4F 4C 55 54 49 4F 4E 5F 31 30 38 30 21
97	Second stream: Resolution = 720p	STMR SETSECONDENCODERRESOLUTION_720	53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 52 45 53 4F 4C 55 54 49 4F 4E 5F 37 32 30 21
98	Second stream: Resolution = 480p	STMR SETSECONDENCODERRESOLUTION_480	53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 52 45 53 4F 4C 55 54 49 4F 4E 5F 34 38 30 21

99	**Second stream: Bitrate (kb/s) = {level} (32 to 32000)**	`STMR SETSECONDENCODER BITRATE_{level}`	`the level in place of {level}`
100	**Second stream: Bitrate (kb/s) = 32**	`STMR SETSECONDENCODER BITRATE_32`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 42 49 54 52 41 54 45 5F 33 32 21`
101	**Second stream: Bitrate (kb/s) = 16016**	`STMR SETSECONDENCODER BITRATE_16016`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 42 49 54 52 41 54 45 5F 31 36 30 31 36 21`
102	**Second stream: Bitrate (kb/s) = 32000**	`STMR SETSECONDENCODER BITRATE_32000`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 42 49 54 52 41 54 45 5F 33 32 30 30 30 21`
103	**Second stream: Bitrate kind = Variable**	`STMR SETSECONDENCODER BITRATECONTROL_VBR`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 42 49 54 52 41 54 45 43 4F 4E 54 52 4F 4C 5F 56 42 52 21`
104	**Second stream: Bitrate kind = Constant**	`STMR SETSECONDENCODER BITRATECONTROL_CBR`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 42 49 54 52 41 54 45 43 4F 4E 54 52 4F 4C 5F 43 42 52 21`
105	**Second stream: Frames per second = 5**	`STMR SETSECONDENCODER FRAMERATE_5`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 35 21`
106	**Second stream: Frames per second = 6**	`STMR SETSECONDENCODER FRAMERATE_6`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 36 21`
107	**Second stream: Frames per second = 7**	`STMR SETSECONDENCODER FRAMERATE_7`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 37 21`
108	**Second stream: Frames per second = 8**	`STMR SETSECONDENCODER FRAMERATE_8`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 38 21`
109	**Second stream: Frames per second = 9**	`STMR SETSECONDENCODER FRAMERATE_9`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 39 21`
110	**Second stream: Frames per second = 10**	`STMR SETSECONDENCODER FRAMERATE_10`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 30 21`
111	**Second stream: Frames per second = 11**	`STMR SETSECONDENCODER FRAMERATE_11`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 31 21`
112	**Second stream: Frames per second = 12**	`STMR SETSECONDENCODER FRAMERATE_12`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 32 21`
113	**Second stream: Frames per second = 13**	`STMR SETSECONDENCODER FRAMERATE_13`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 33 21`
114	**Second stream: Frames per second = 14**	`STMR SETSECONDENCODER FRAMERATE_14`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 34 21`
115	**Second stream: Frames per second = 15**	`STMR SETSECONDENCODER FRAMERATE_15`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 35 21`
116	**Second stream: Frames per second = 16**	`STMR SETSECONDENCODER FRAMERATE_16`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 36 21`

117	**Second stream: Frames per second = 17**	`STMR SETSECONDENCODER FRAMERATE_17`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 37 21`
118	**Second stream: Frames per second = 18**	`STMR SETSECONDENCODER FRAMERATE_18`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 38 21`
119	**Second stream: Frames per second = 19**	`STMR SETSECONDENCODER FRAMERATE_19`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 31 39 21`
120	**Second stream: Frames per second = 20**	`STMR SETSECONDENCODER FRAMERATE_20`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 30 21`
121	**Second stream: Frames per second = 21**	`STMR SETSECONDENCODER FRAMERATE_21`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 31 21`
122	**Second stream: Frames per second = 22**	`STMR SETSECONDENCODER FRAMERATE_22`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 32 21`
123	**Second stream: Frames per second = 23**	`STMR SETSECONDENCODER FRAMERATE_23`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 33 21`
124	**Second stream: Frames per second = 24**	`STMR SETSECONDENCODER FRAMERATE_24`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 34 21`
125	**Second stream: Frames per second = 25**	`STMR SETSECONDENCODER FRAMERATE_25`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 35 21`
126	**Second stream: Frames per second = 26**	`STMR SETSECONDENCODER FRAMERATE_26`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 36 21`
127	**Second stream: Frames per second = 27**	`STMR SETSECONDENCODER FRAMERATE_27`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 37 21`
128	**Second stream: Frames per second = 28**	`STMR SETSECONDENCODER FRAMERATE_28`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 38 21`
129	**Second stream: Frames per second = 29**	`STMR SETSECONDENCODER FRAMERATE_29`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 32 39 21`
130	**Second stream: Frames per second = 30**	`STMR SETSECONDENCODER FRAMERATE_30`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 5F 33 30 21`
131	**Second stream: Key frame every (frames) = {level} (5 to 300)**	`STMR SETSECONDENCODER GOP_{level}`	`the level in place of {level}`
132	**Second stream: Key frame every (frames) = 5**	`STMR SETSECONDENCODER GOP_5`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 47 4F 50 5F 35 21`
133	**Second stream: Key frame every (frames) = 153**	`STMR SETSECONDENCODER GOP_153`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 47 4F 50 5F 31 35 33 21`
134	**Second stream: Key frame every (frames) = 300**	`STMR SETSECONDENCODER GOP_300`	`53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 47 4F 50 5F 33 30 30 21`

135	Second stream: Profile (H.264) = Baseline	STMR SETSECONDENCODERH264LEVEL_BASELINE	53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 48 32 36 34 4C 45 56 45 4C 5F 42 41 53 45 4C 49 4E 45 21
136	Second stream: Profile (H.264) = Main	STMR SETSECONDENCODERH264LEVEL_MAIN	53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 48 32 36 34 4C 45 56 45 4C 5F 4D 41 49 4E 21
137	Second stream: Profile (H.264) = High	STMR SETSECONDENCODERH264LEVEL_HIGH	53 54 4D 52 20 53 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 48 32 36 34 4C 45 56 45 4C 5F 48 49 47 48 21
138	Sound: Sound from = HDMI	STMR SETAUDIOSOURCE_HDMI	53 54 4D 52 20 53 45 54 41 55 44 49 4F 53 4F 55 52 43 45 5F 48 44 4D 49 21
139	Sound: Sound from = Audio in	STMR SETAUDIOSOURCE_AUDIOIN	53 54 4D 52 20 53 45 54 41 55 44 49 4F 53 4F 55 52 43 45 5F 41 55 44 49 4F 49 4E 21
140	Input: EDID it shows the source = 4K (2160p)	STMR SETEDID_2160	53 54 4D 52 20 53 45 54 45 44 49 44 5F 32 31 36 30 21
141	Input: EDID it shows the source = 1080p	STMR SETEDID_1080	53 54 4D 52 20 53 45 54 45 44 49 44 5F 31 30 38 30 21
142	Input: EDID it shows the source = 720p	STMR SETEDID_720	53 54 4D 52 20 53 45 54 45 44 49 44 5F 37 32 30 21
143	Input: EDID it shows the source = Its uploaded EDID	STMR SETEDID_CUSTOM	53 54 4D 52 20 53 45 54 45 44 49 44 5F 43 55 53 54 4F 4D 21
144	On the picture: Show stream info on the picture on	STMR SETOSDINFO_ON	53 54 4D 52 20 53 45 54 4F 53 44 49 4E 46 4F 5F 4F 4E 21
145	On the picture: Show stream info on the picture off	STMR SETOSDINFO_OFF	53 54 4D 52 20 53 45 54 4F 53 44 49 4E 46 4F 5F 4F 46 46 21
146	On the picture: Take the text off	STMR SETOSDOFF	53 54 4D 52 20 53 45 54 4F 53 44 4F 46 46 21
147	This box: Fan = Silent	STMR SETFANSPEDD_1	53 54 4D 52 20 53 45 54 46 41 4E 53 50 45 44 44 5F 31 21
148	This box: Fan = Low	STMR SETFANSPEDD_2	53 54 4D 52 20 53 45 54 46 41 4E 53 50 45 44 44 5F 32 21
149	This box: Fan = Standard	STMR SETFANSPEDD_3	53 54 4D 52 20 53 45 54 46 41 4E 53 50 45 44 44 5F 33 21
150	This box: Fan = High	STMR SETFANSPEDD_4	53 54 4D 52 20 53 45 54 46 41 4E 53 50 45 44 44 5F 34 21
151	This box: Lock its front buttons on	STMR SETMENULOCKSTATE_ON	53 54 4D 52 20 53 45 54 4D 45 4E 55 4C 4F 43 4B 53 54 41 54 45 5F 4F 4E 21
152	This box: Lock its front buttons off	STMR SETMENULOCKSTATE_OFF	53 54 4D 52 20 53 45 54 4D 45 4E 55 4C 4F 43 4B 53 54 41 54 45 5F 4F 46 46 21
153	This box: Time zone (its own list, 0-138) = {level} (0 to 138)	STMR SETTIMEZONEINDEX_{level}	the level in place of {level}
154	This box: Time zone (its own list, 0-138) = 0	STMR SETTIMEZONEINDEX_0	53 54 4D 52 20 53 45 54 54 49 4D 45 5A 4F 4E 45 49 4E 44 45 58 5F 30 21
155	This box: Time zone (its own list, 0-138) = 69	STMR SETTIMEZONEINDEX_69	53 54 4D 52 20 53 45 54 54 49 4D 45 5A 4F 4E 45 49 4E 44 45 58 5F 36 39 21
156	This box: Time zone (its own list, 0-138) = 138	STMR SETTIMEZONEINDEX_138	53 54 4D 52 20 53 45 54 54 49 4D 45 5A 4F 4E 45 49 4E 44 45 58 5F 31 33 38 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	STMR GETMAINRTMPENABLE	53 54 4D 52 20 47 45 54 4D 41 49 4E 52 54 4D 50 45 4E 41 42 4C 45 21	Rtmp
2	STMR GETMAINRTMPSTATUS	53 54 4D 52 20 47 45 54 4D 41 49 4E 52 54 4D 50 53 54 41 54 55 53 21	Main live push
3	STMR GETSECONDRTMPENABLE	53 54 4D 52 20 47 45 54 53 45 43 4F 4E 44 52 54 4D 50 45 4E 41 42 4C 45 21	Rtmp2
4	STMR GETSECONDRTMPSTATUS	53 54 4D 52 20 47 45 54 53 45 43 4F 4E 44 52 54 4D 50 53 54 41 54 55 53 21	Second live push
5	STMR GETACTIVESIGNAL	53 54 4D 52 20 47 45 54 41 43 54 49 56 45 53 49 47 4E 41 4C 21	Signal
6	STMR GETINPUTDATA	53 54 4D 52 20 47 45 54 49 4E 50 55 54 44 41 54 41 21	Input
7	STMR GETMAINENCODERBITRATE	53 54 4D 52 20 47 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 42 49 54 52 41 54 45 21	Bitrate (kb/s)
8	STMR GETMAINENCODERFRAMERATE	53 54 4D 52 20 47 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 21	Frames per second
9	STMR GETMAINENCODERGOP	53 54 4D 52 20 47 45 54 4D 41 49 4E 45 4E 43 4F 44 45 52 47 4F 50 21	Key frame every (frames)
10	STMR GETSECONDENCODERBITRATE	53 54 4D 52 20 47 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 42 49 54 52 41 54 45 21	Bitrate (kb/s)
11	STMR GETSECONDENCODERFRAMERATE	53 54 4D 52 20 47 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 46 52 41 4D 45 52 41 54 45 21	Frames per second
12	STMR GETSECONDENCODERGOP	53 54 4D 52 20 47 45 54 53 45 43 4F 4E 44 45 4E 43 4F 44 45 52 47 4F 50 21	Key frame every (frames)
13	STMR GETOSDINFO	53 54 4D 52 20 47 45 54 4F 53 44 49 4E 46 4F 21	Show stream info on the picture

14	STMR GETOSDONSTATE	53 54 4D 52 20 47 45 54 4F 53 44 4F 4E 53 54 41 54 45 21	Text on the picture
15	STMR GETOSDON	53 54 4D 52 20 47 45 54 4F 53 44 4F 4E 21	Its text
16	STMR GETCHANNEL	53 54 4D 52 20 47 45 54 43 48 41 4E 4E 45 4C 21	Channel number
17	STMR GETMAINHLSENABLE	53 54 4D 52 20 47 45 54 4D 41 49 4E 48 4C 53 45 4E 41 42 4C 45 21	Main stream as HLS (web players on the network)
18	STMR GETSECONDHLSENABLE	53 54 4D 52 20 47 45 54 53 45 43 4F 4E 44 48 4C 53 45 4E 41 42 4C 45 21	Second stream as HLS
19	STMR GETMAINMULTICAST	53 54 4D 52 20 47 45 54 4D 41 49 4E 4D 55 4C 54 49 43 41 53 54 21	Main multicast (TS, RTSP)
20	STMR GETSECONDMULTICAST	53 54 4D 52 20 47 45 54 53 45 43 4F 4E 44 4D 55 4C 54 49 43 41 53 54 21	Second multicast (TS, RTSP)
21	STMR GETAUDIOMULTICAST	53 54 4D 52 20 47 45 54 41 55 44 49 4F 4D 55 4C 54 49 43 41 53 54 21	Audio-only multicast
22	STMR GETMAINHLSURL	53 54 4D 52 20 47 45 54 4D 41 49 4E 48 4C 53 55 52 4C 21	Main HLS address
23	STMR GETSECONDHLSURL	53 54 4D 52 20 47 45 54 53 45 43 4F 4E 44 48 4C 53 55 52 4C 21	Second HLS address
24	STMR GETMAINLOCALRTMPURL	53 54 4D 52 20 47 45 54 4D 41 49 4E 4C 4F 43 41 4C 52 54 4D 50 55 52 4C 21	Its own RTMP address (main)
25	STMR GETSECONDLOCALRTMPURL	53 54 4D 52 20 47 45 54 53 45 43 4F 4E 44 4C 4F 43 41 4C 52 54 4D 50 55 52 4C 21	Its own RTMP address (second)
26	STMR GETRTSPAUTHENABLE	53 54 4D 52 20 47 45 54 52 54 53 50 41 55 54 48 45 4E 41 42 4C 45 21	RTSP asks for a login
27	STMR GETDEVNAME	53 54 4D 52 20 47 45 54 44 45 56 4E 41 4D 45 21	Its own name
28	STMR GETFANSPEED	53 54 4D 52 20 47 45 54 46 41 4E 53 50 45 45 44 21	Fan

29	STMR GETMENULOCKSTATE	53 54 4D 52 20 47 45 54 4D 45 4E 55 4C 4F 43 4B 53 54 41 54 45 21	Lock its front buttons
30	STMR GETTIMEZONEINDEX	53 54 4D 52 20 47 45 54 54 49 4D 45 5A 4F 4E 45 49 4E 44 45 58 21	Time zone (its own list, 0-138)
31	STMR GETFIRMWARE	53 54 4D 52 20 47 45 54 46 49 52 4D 57 41 52 45 21	Firmware
32	STMR GETSERIALNUMBER	53 54 4D 52 20 47 45 54 53 45 52 49 41 4C 4E 55 4D 42 45 52 21	Serial number
33	STMR GETCPU_USAGE	53 54 4D 52 20 47 45 54 43 50 55 5F 55 53 41 47 45 21	Processor load
34	STMR GETMEMORY_USAGE	53 54 4D 52 20 47 45 54 4D 45 4D 4F 52 59 5F 55 53 41 47 45 21	Memory in use
35	STMR GETRUNHOURS	53 54 4D 52 20 47 45 54 52 55 4E 48 4F 55 52 53 21	Hours running
36	STMR GETIPMETHOD	53 54 4D 52 20 47 45 54 49 50 4D 45 54 48 4F 44 21	Address from
37	STMR GETIPADDRESS	53 54 4D 52 20 47 45 54 49 50 41 44 44 52 45 53 53 21	Address
38	STMR GETSUBNET	53 54 4D 52 20 47 45 54 53 55 42 4E 45 54 21	Subnet mask
39	STMR GETGATEWAY	53 54 4D 52 20 47 45 54 47 41 54 45 57 41 59 21	Gateway
40	STMR GETMACADDRESS	53 54 4D 52 20 47 45 54 4D 41 43 41 44 44 52 45 53 53 21	MAC address
41	STMR GETPREFERREDDNS	53 54 4D 52 20 47 45 54 50 52 45 46 45 52 52 45 44 44 4E 53 21	DNS
42	STMR GETALTERNATEDNS	53 54 4D 52 20 47 45 54 41 4C 54 45 52 4E 41 54 45 44 4E 53 21	Second DNS
43	STMR GETNTPSERVER	53 54 4D 52 20 47 45 54 4E 54 50 53 45 52 56 45 52 21	Time server
44	STMR GETNTPPORT	53 54 4D 52 20 47 45 54 4E 54 50 50 4F 52 54 21	Time server port
45	STMR GETHTTPSENABLE	53 54 4D 52 20 47 45 54 48 54 54 50 53 45 4E 41 42 4C 45 21	Web page over HTTPS

46	`STMR GET8021XENABLE`	`53 54 4D 52 20 47 45 54 38 30 32 31 58 45 4E 41 42 4C 45 21`	802.1X network login
47	`STMR GETCLOSESYSTEMMODE`	`53 54 4D 52 20 47 45 54 43 4C 4F 53 45 53 59 53 54 45 4D 4D 4F 44 45 21`	Closed system mode

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.