

## Transport Stream 7 - MPEG2 Audio Lip Sync Measurements

	Encoder Vendor - source transport stream TS7 used for test.
	Decoder Vendor
+ value in ms	+ Value number indicates audio lags video by that amount in milliseconds.
- value in ms	- Value number indicates the audio leads the video by that amount in mill
	See vendor name for note - MPEG2 tests available on alternate TS 11 lip sy
	no measurement

Vendor Transport Stream TS 07	Vendor Decoder	Audio Type MPEG2	Delay measured in milliseconds ove			
			1	2	3	4
Adtec (422)	Comtech					
	Evertz					
	Fujitsu					
	IDC					
	NTT					
	Cisco					
	Sencore					
	Tandberg					
	Thomson					
			See Video Results comments -			
ATEME (422)	Comtech					
	Evertz					
	Fujitsu					
	IDC					
	NTT					
	Cisco					
	Sencore					
	Tandberg					
	Thomson					
			Mixed Audio on transport stream			
Comtech (420)	Comtech		-30	-31	-27	-29
	Evertz		-32	-41	-15	-28
	Fujitsu		-34	-34	-34	-34
	IDC		21	1	15	-9
	NTT		-32	-32	-32	-32
	Cisco		-22	-36	-33	-35
	Sencore		-27	-35	-28	-36
	Tandberg		-32	-32	-32	-32
	Thomson		-32	-32	-34	-31
Evertz (see TS 11)	Comtech					
	Evertz					
	Fujitsu					
	IDC					
	NTT					

	Cisco Sencore Tandberg Thomson				
Fujitsu (see TS 11)	Comtech Evertz Fujitsu IDC NTT Cisco Sencore Tandberg Thomson				
Harmonic (420)	Comtech Evertz Fujitsu IDC NTT Cisco Sencore Tandberg Thomson	18 10 PIDS seen no decode - Measur 48 18 14 16 17 19	18 1 48 18 32 20 17 16	18 18 15 14 17 17	19 6 49 17 16 18 17 15
NTT(422)	Comtech Evertz Fujitsu IDC NTT Cisco Sencore Tandberg Thomson				
Cisco (see TS11)	Comtech Evertz Fujitsu IDC NTT Cisco Sencore Tandberg Thomson				
Tandberg (420)	Comtech	2	2	1	2

	Evertz	-25	-10	2	-19
	Fujitsu	PIDS seen no decode - Measure			
	IDC	37	49	61	40
	NTT	-57	-33	-33	-57
	Cisco	3	10	0	11
	Sencore	-1	3	2	4
	Tandberg	1	1	1	1
	Thomson	0	-2	-1	0
Thomson (see TS11)	Comtech				
	Evertz				
	Fujitsu				
	IDC				
	NTT				
	Cisco				
	Sencore				
	Tandberg				
	Thomson				

liseconds  
 rnc data sheet.

r maximum 10 loops of a 30 second ASI TS.						Tester Comments
5	6	7	8	9	10	



measurement not possible



am - measurement not possible



-24	-31	-26	-31	-31	-28
-28	-29	-29	-14	-9	-32
-34	-34	-34	-34	-34	-34
4	17	-4	9	22	2
-32	-32	-32	-32	-32	-32
-24	-20	-35	-23	-33	-22
-29	-29	-36	-29	-34	-31
-32	-32	-32	-32	-32	-32
-33	-31	-33	-30	-30	-34

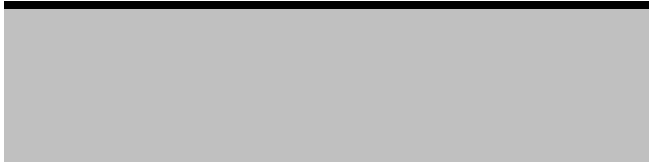
Break ASI to regain clear audio  
 Break ASI to stop LipSync Drift



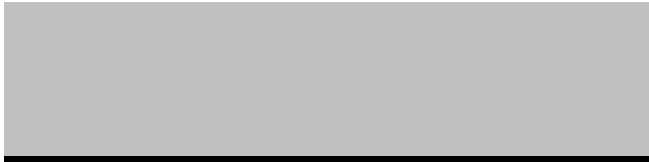
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18	18	18	18	18	18
19	2	11	19	-6	21
ement not possible					
47	49	49	49	49	49
18	31	18	17	24	18
12	13	34	14	31	16
18	17	14	18	19	19
17	17	17	17	17	17
15	16	21	17	18	14

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1 1 1 1 1 1



2 2 1 1 2 2

-6	8	-23	-13	-5	-3
element not possible					
52	42	55	34	46	58
-57	-33	-57	-33	-33	-57
-4	11	-3	12	-2	9
0	5	-1	5	-3	-1
1	1	1	1	1	1
5	0	2	-2	1	-3

