

TEST REPORT

AV SYSTEM TEST REPORT

PERFORMANCE TESTING FOR DIGITAL VIDEO AND AUDIO
DISTRIBUTION

Project Name: WEBSITE SAMPLE
Unit Under Test: DM-MD32X32-RPS
Unit Serial Number: 00000000

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DigitalMedia™

Test Report Abstract

This report is a summary of the results of the DM-MD32X32-RPS digital video system as part of the WEBSITE SAMPLE project. It provides the information required by the 'Demonstration and Acceptance Testing' section of the HD Digital Transport and Distribution System specification ([HD-DTDS](#)). The tests cover the EDID and HDCP subsystems to ensure they are configured correctly. In addition, the digital video system is tested to ensure that the cabling can support the required data rates. Any items that should be corrected will be reported in the "Open Items" section on page 3. Items that may be acceptable but are highlighted to bring them to your attention are reported in "Important Notices" on page 4. The EDID and HDCP system configuration and results of cable testing are detailed in tables on the pages that follow. The Demonstration and Acceptance Testing section of the HD-DTDS is included in Appendix B for reference. For more information on the HD-DTDS, go to www.crestron.com and navigate to the DigitalMedia Resources section.

This report is for the exclusive use of INTEGRATOR's client and its representatives - and is provided pursuant to the agreement between INTEGRATOR and its client. The observations and test results in this report are relevant only to the particular digital video system tested and only at the time of commissioning. This report must be generated by a DigitalMedia Certified Engineer (DMC-E) to be valid.

Commissioning Engineer:

Justin Kennington
PLM, DigitalMedia

Date

Reviewed and Approved:

REVIEWER
REVIEW ENGINEER

Date

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Open Items

There should not be any open items in a completed system that is signed-off. Any open items indicated in the table below shall be corrected before system sign-off is done.

EDID:

[31] Output 31 - EDID cannot be read from sink. Check cabling and ensure sink device is on.

Cabling:

Important Notices

Notices are indications of items that may cause unexpected behavior. Each of these items shall be individually reviewed and approved by the sign-off engineer.

HDCP:

- [06] Input 6 - KSV check not run
- [17] Input 17 - KSV check not run
- [18] Input 18 - KSV check not run
- [19] Input 19-E - KSV check not run
- [20] Input 20 - KSV check not run
- [24] Input 24 - KSV check not run

EDID:

- [09] Input 9 input EDID supports fewer than three video timings. It is recommended that all EDIDs report at least 3 timings to ensure compatibility with sources.
- [11] Input 11 input EDID supports fewer than three video timings. It is recommended that all EDIDs report at least 3 timings to ensure compatibility with sources.

Cabling:

- [21] Output 21 - Cable length may be less than 5m (15'). Verify length.
- [22] Output 22 - Cable length may be less than 5m (15'). Verify length.
- [23] Output 23-E - Cable length may be less than 5m (15'). Verify length.
- [24] Output 24 - Cable length may be less than 5m (15'). Verify length.
- [27] Output 27-E - Cable length may be less than 5m (15'). Verify length.
- [28] Output 28 - Cable length may be less than 5m (15'). Verify length.
- [29] Output 29 - Cable length may be less than 5m (15'). Verify length.
- [31] Output 31 - Cable length may be less than 5m (15'). Verify length.
- [32] Output 32-E - Cable length may be less than 5m (15'). Verify length.

Firmware and Serial Numbers

DigitalMedia Switcher Chassis and Cards

Name	Device	Firmware Version	Serial Number
[Chassis]	DM-MD32x32-RPS	4.002.0728 (Dec 08 2010)	00000000
[Input 1] Input 1-E	DMC-HD-DSP	1.1072.23935	4687689
[Input 2] Input 2	DMC-HD-DSP	1.1072.23935	4791195
[Input 3] Input 3	DMC-HD-DSP	1.1072.23935	3979355
[Input 4] Input 4	DMC-HD-DSP	1.1072.23935	4791216
[Input 5] Input 5	DMC-HD-DSP	1.1072.23935	4791111
[Input 6] Input 6	DMC-HD-DSP	1.1072.23935	4871544
[Input 7] Input 7-E	DMC-CAT-DSP	1.1072.23847	4764094
[Input 8] Input 8	DMC-CAT	1.1072.23847	4869893
[Input 9] Input 9	DMC-CAT-DSP	1.1072.23847	4764124
[Input 10] Input 10	DMC-C-DSP	1.1072.23711	B36984440
[Input 11] Input 11	DMC-CAT-DSP	1.1072.23847	4764036
[Input 12] Input 12	DMC-CAT	1.1072.23847	4869875
[Input 13] Input 13-E	DMC-CAT	1.1072.23847	4453826
[Input 14] Input 14	DMC-CAT	1.1072.23847	4869864
[Input 15] Input 15	DMC-CAT	1.1072.23847	4419507
[Input 16] Input 16	DMC-CAT	1.1072.23847	4869845
[Input 17] Input 17	DMC-HD-DSP	1.1072.23935	4687647
[Input 18] Input 18	DMC-HD-DSP	1.1072.23935	4687632
[Input 19] Input 19-E	DMC-HD-DSP	1.1072.23935	4339036
[Input 20] Input 20	DMC-HD-DSP	1.1072.23935	4791249
[Input 21] Input 21	DMC-VID-RCA-D	1.1072.24001	4719108
[Input 22] Input 22-E	DMC-VID-RCA-A	1.1072.24001	4028317
[Input 23] Input 23	DMC-VID4	1.1072.23977	3954903
[Input 24] Input 24	DMC-DVI	1.1072.23888	4822244
[Input 25] Input 25-E	DMC-F	1.1072.23760	4790975
[Input 26] Input 26	DMC-F-DSP	1.1072.23760	4480731
[Input 27] Input 27	DMC-F	1.1072.23760	4765275
[Input 28] Input 28	DMC-S-DSP	1.1072.23792	D54880137
[Input 29] Input 29-E	DMC-F-DSP	1.1072.23760	4472738
[Input 30] Input 30	DMC-F	1.1072.23760	4936592
[Input 31] Input 31	DMC-F-DSP	1.1072.23760	4848009
[Input 32] Input 32-E	DMC-F	1.1072.23760	4476502
[Output 1, 2] Output -E, Output 2	DMC-CO-HD	1.1078.17545	11223344
[Output 3, 4] Output 3, Output 4	DMC-SO-HD	1.1072.24192	B36984435
[Output 5, 6] Output 5-E, Output 6	DMC-FO	0.1065.33528	4535072
[Output 7, 8] Output 7, Output 8	DMC-FO	0.1079.32734	4535059
[Output 9, 10] Output 9, Output 10	DMC-FO	1.1072.24238	4222221
[Output 11, 12] Output 11-E, Output 12	DMC-FO	1.1072.24238	4222101

[Output 13, 14] Output 13, Output 14	DMC-HDO	0.1063.30765	4541309
[Output 15, 16] Output 15, Output 16	DMC-HDO	1.1072.24164	4541231
[Output 17, 18] Output 17-E, Output 18	DMC-CATO-HD	1.1072.24087	4797037
[Output 19, 20] Output 19, Output 20-E	DMC-HDO	1.1072.24164	4693677
[Output 21, 22] Output 21, Output 22	DMC-CATO-HD	1.1072.24087	4357365
[Output 23, 24] Output 23-E, Output 24	DMC-CATO-HD	1.1072.24087	4357377
[Output 25, 26] Output 25, Output 26	DMC-CATO-HD	1.1072.24087	4357263
[Output 27, 28] Output 27-E, Output 28	DMC-CATO-HD	1.1072.24087	4357330
[Output 29, 30] Output 29, Output 30	DMC-CATO-HD	1.1072.24087	4357264
[Output 31, 32] Output 31, Output 32-E	DMC-CATO-HD	1.1072.24087	4357315

DigitalMedia Connected Devices

Device	Firmware Version	Serial Number	Connected to (Slot Number)
DM-TX-300N	1.1072.24892	4387378	[Input 7] Input 7-E
DM-TX-200	1.1072.24720	5401017	[Input 8] Input 8
DM-TX-400-3G	1.1072.25013	4830213	[Input 9] Input 9
DM-TX-201-C	1.1078.18231	5414733	[Input 10] Input 10
DM-TX-100	1.1072.24635	5393134	[Input 11] Input 11
DM-TX-300N-F	1.1072.24953	4735939	[Input 25] Input 25-E
DM-TX-100-F	1.1072.24681	4880552	[Input 26] Input 26
DM-TX-100-F	1.1072.24681	4412084	[Input 27] Input 27
DM-TX-201-S	1.1072.24834	X 134330272	[Input 28] Input 28
DM-RMC-100-C	1.1078.17810	B19088743	[Output 1] Output -E
DM-RMC-100-C	1.1078.17810	B35865959	[Output 2] Output 2
DM-RMC-100-S	1.1072.24313	X 134330280	[Output 3] Output 3
DM-RMC-150-S	1.1078.17895		[Output 4] Output 4
DM-RMC-100-F	1.1072.24416	4813666	[Output 6] Output 6
DM-RMC-100-F	1.1072.24416	4813690	[Output 9] Output 9
DM-RMC-100-F	1.1072.24416	4813692	[Output 10] Output 10
DM-RMC-100-F	1.1072.24416	4813671	[Output 11] Output 11-E
DM-RMC-100-F	1.1072.24416	4538632	[Output 12] Output 12
DM-RMC-100	1.1072.24268	4819349	[Output 21] Output 21
DM-RMC-100	1.1072.24268	4819151	[Output 22] Output 22
DM-RMC-100	1.1072.24268	4719466	[Output 23] Output 23-E
DM-RMC-100	1.1072.24268	4819203	[Output 24] Output 24
DM-RMC-100	1.1072.24268	4819333	[Output 27] Output 27-E
DM-RMC-100	1.1072.24268	4539321	[Output 28] Output 28
DM-RMC-100	1.1072.24268	4819204	[Output 29] Output 29
DM-RMC-100	1.1072.24268	4819343	[Output 30] Output 30
DM-RMC-100	1.1072.24268	4819323	[Output 31] Output 31
DM-RMC-100	1.1072.24268	4819225	[Output 32] Output 32-E

Video Timings on Input EDIDs

This table shows the Extended Display Identification Data (EDID) for video timings that is present on each input. This data is important to know because many sources, particularly computers will not output video in any resolution except those found in the EDID.

Video Resolutions Supported by Inputs	HDMI 3D Support	640 x480@60	720 x480@30	720 x480p60	720 x576i25	720 x576p50	800 x600@60	848 x480@60	1024 x768@60	1280 x720p50	1280 x720p60	1280 x768@60	1280 x768@60	1280 x800@60	1280 x800(h)@60	1280 x960@60	1280 x960(h)@60	1366 x768@60	1366 x768(h)@60	1400 x1050@60	1400 x1050(h)@60	1440 x900@60	1440 x900(h)@60	1600 x900(h)@60	1600 x1200@60	1680 x1050@60	1680 x1050(h)@60	1920 x1080i25	1920 x1080i30	1920 x1080p24	1920 x1080p50	1920 x1080p60	1920 x1200(h)@60	2048 x1080@24	2048 x1152(h)@60						
[01] Input 1-E		✓		✓			✓		✓		✓							✓	✓										✓	✓											
[02] Input 2		✓		✓			✓		✓		✓							✓	✓											✓	✓										
[03] Input 3		✓	✓	✓			✓		✓		✓							✓	✓											✓	✓										
[04] Input 4		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓						✓	✓										✓	✓	✓	✓	✓	✓	✓	✓					
[05] Input 5		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓						✓	✓										✓	✓	✓	✓	✓	✓	✓	✓					
[06] Input 6		✓					✓		✓	✓	✓							✓	✓										✓	✓	✓	✓	✓	✓	✓	✓					
[07] Input 7-E		✓	✓	✓	✓	✓	✓		✓	✓	✓							✓	✓										✓	✓	✓	✓	✓	✓	✓	✓					
[08] Input 8		✓	✓	✓	✓	✓	✓		✓	✓	✓							✓	✓										✓	✓	✓	✓	✓	✓	✓	✓	✓				
[09] Input 9		✓																																							
[10] Input 10		✓					✓		✓	✓	✓							✓	✓										✓	✓	✓	✓	✓	✓	✓	✓					
[11] Input 11		✓									✓																														
[12] Input 12		✓					✓		✓	✓	✓							✓	✓											✓	✓	✓	✓	✓	✓	✓	✓				
[13] Input 13-E		✓					✓		✓	✓	✓							✓	✓											✓	✓	✓	✓	✓	✓	✓	✓				
[14] Input 14		✓					✓		✓	✓	✓							✓	✓											✓	✓	✓	✓	✓	✓	✓	✓				
[15] Input 15		✓	✓	✓	✓	✓	✓		✓	✓	✓							✓	✓											✓	✓	✓	✓	✓	✓	✓	✓	✓			
[16] Input 16		✓	✓	✓	✓	✓	✓		✓	✓	✓							✓	✓										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
[17] Input 17		✓		✓			✓		✓		✓							✓	✓					✓					✓	✓	✓	✓	✓	✓	✓	✓	✓				
[18] Input 18		✓					✓		✓	✓	✓							✓	✓											✓	✓	✓	✓	✓	✓	✓	✓	✓			
[19] Input 19-E		✓	✓	✓	✓	✓	✓		✓	✓	✓							✓	✓										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
[20] Input 20		✓	✓	✓			✓		✓		✓							✓	✓											✓	✓										
[21] Input 21	EDID not used on analog video inputs																																								
[22] Input 22-E	EDID not used on analog video inputs																																								
[23] Input 23	EDID not used on analog video inputs																																								
[24] Input 24		✓					✓		✓	✓	✓						✓	✓										✓	✓	✓	✓	✓	✓	✓	✓						
[25] Input 25-E		✓		✓			✓		✓		✓							✓	✓					✓					✓	✓	✓	✓	✓	✓	✓	✓					
[26] Input 26		✓		✓			✓		✓		✓							✓	✓					✓					✓	✓	✓	✓	✓	✓	✓	✓					
[27] Input 27		✓	✓	✓			✓		✓		✓							✓	✓										✓	✓	✓	✓	✓	✓	✓	✓	✓				
[28] Input 28		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓						✓	✓										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
[29] Input 29-E		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓						✓	✓										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
[30] Input 30		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓						✓	✓										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
[31] Input 31		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓						✓	✓										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
[32] Input 32-E		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓						✓	✓										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			

or switched to another input.

Audio Formats on Input EDIDs

This table shows the Extended Display Identification Data (EDID) information for audio formats that is present on each input. This data is important to know because many sources will only output audio formats indicated in the EDID. Input cards that contain DSPs (-DSP versions) will automatically create a 2-channel downmix of incoming multi-channel audio and route that to destinations that only support 2-channel audio.

Audio Formats Supported by Inputs (Max sampling rate for each format shown in kHz)	AC-3 2	AC-3 6	Linear PCM 2
[01] Input 1-E (DMC-HD-DSP)	-	48	48
[02] Input 2 (DMC-HD-DSP)	-	-	48
[03] Input 3 (DMC-HD-DSP)	-	-	48
[04] Input 4 (DMC-HD-DSP)	-	-	48
[05] Input 5 (DMC-HD-DSP)	-	-	48
[06] Input 6 (DMC-HD-DSP)	-	-	48
[07] Input 7-E (DMC-CAT-DSP)	-	-	48
[08] Input 8 (DMC-CAT)	-	-	48
[09] Input 9 (DMC-CAT-DSP)	-	-	48
[10] Input 10 (DMC-C-DSP)	-	-	48
[11] Input 11 (DMC-CAT-DSP)	48	-	48
[12] Input 12 (DMC-CAT)	-	-	48
[13] Input 13-E (DMC-CAT)	-	-	48
[14] Input 14 (DMC-CAT)	-	-	48
[15] Input 15 (DMC-CAT)	-	-	48
[16] Input 16 (DMC-CAT)	-	-	48
[17] Input 17 (DMC-HD-DSP)	-	-	48
[18] Input 18 (DMC-HD-DSP)	-	-	48
[19] Input 19-E (DMC-HD-DSP)	-	-	48
[20] Input 20 (DMC-HD-DSP)	-	-	48
[21] Input 21 (DMC-VID-RCA-D)	EDID not used on analog video inputs		
[22] Input 22-E (DMC-VID-RCA-A)	EDID not used on analog video inputs		
[23] Input 23 (DMC-VID4)	EDID not used on analog video inputs		
[24] Input 24 (DMC-DVI)	-	-	-
[25] Input 25-E (DMC-F)	-	-	48
[26] Input 26 (DMC-F-DSP)	-	-	48
[27] Input 27 (DMC-F)	-	-	48
[28] Input 28 (DMC-S-DSP)	-	-	48
[29] Input 29-E (DMC-F-DSP)	-	-	48
[30] Input 30 (DMC-F)	-	-	48
[31] Input 31 (DMC-F-DSP)	-	-	48
[32] Input 32-E (DMC-F)	-	-	48

Audio Formats Detected on Output EDIDs

This table shows the Extended Display Identification Data (EDID) information regarding audio formats reported by each device connected to the HDMI outputs of the DigitalMedia system. These are indications from the connected devices of what audio formats they support.

Audio Formats Supported by Outputs (Max sampling rate for each format shown in kHz)	AC-3 2	AC-3 6	Linear PCM 2	MPEG1(Layers 1 & 2) 2
[Output slot 01a] Output -E (DMC-CO-HD) (DM)	48	-	96	48
[Output slot 01b] Output -E (DMC-CO-HD) (HDMI)	Not Connected			
[Output slot 02a] Output 2 (DMC-CO-HD) (DM)	-	-	48	-
[Output slot 03a] Output 3 (DMC-SO-HD) (DM)	Not Connected			
[Output slot 03b] Output 3 (DMC-SO-HD) (HDMI)	Not Connected			
[Output slot 04a] Output 4 (DMC-SO-HD) (DM)	Not Connected			
[Output slot 05a] Output 5-E (DMC-FO) (DM)	Not Connected			
[Output slot 06a] Output 6 (DMC-FO) (DM)	-	-	48	-
[Output slot 07a] Output 7 (DMC-FO) (DM)	-	-	48	-
[Output slot 08a] Output 8 (DMC-FO) (DM)	-	-	48	-
[Output slot 09a] Output 9 (DMC-FO) (DM)	-	-	48	-
[Output slot 10a] Output 10 (DMC-FO) (DM)	-	-	48	-
[Output slot 11a] Output 11-E (DMC-FO) (DM)	-	-	48	-
[Output slot 12a] Output 12 (DMC-FO) (DM)	-	-	48	-
[Output slot 13b] Output 13 (DMC-HDO) (HDMI)	-	-	48	-
[Output slot 14b] Output 14 (DMC-HDO) (HDMI)	-	-	48	-
[Output slot 15b] Output 15 (DMC-HDO) (HDMI)	-	-	48	-
[Output slot 16b] Output 16 (DMC-HDO) (HDMI)	-	-	48	-
[Output slot 17a] Output 17-E (DMC-CATO-HD) (DM)	-	-	48	-
[Output slot 17b] Output 17-E (DMC-CATO-HD) (HDMI)	-	-	48	-
[Output slot 18a] Output 18 (DMC-CATO-HD) (DM)	-	-	48	-
[Output slot 19b] Output 19 (DMC-HDO) (HDMI)	-	-	48	-
[Output slot 20b] Output 20-E (DMC-HDO) (HDMI)	-	-	48	-
[Output slot 21a] Output 21 (DMC-CATO-HD) (DM)	-	-	48	-
[Output slot 21b] Output 21 (DMC-CATO-HD) (HDMI)	-	-	48	-
[Output slot 22a] Output 22 (DMC-CATO-HD) (DM)	-	-	48	-
[Output slot 23a] Output 23-E (DMC-CATO-HD) (DM)	-	-	48	-
[Output slot 23b] Output 23-E (DMC-CATO-HD) (HDMI)	-	-	48	-
[Output slot 24a] Output 24 (DMC-CATO-HD) (DM)	-	-	48	-
[Output slot 25a] Output 25 (DMC-CATO-HD) (DM)	-	-	48	-

[Output slot 25b] Output 25 (DMC-CATO-HD) (HDMI)	-	-	48	-
[Output slot 26a] Output 26 (DMC-CATO-HD) (DM)	-	-	48	-
[Output slot 27a] Output 27-E (DMC-CATO-HD) (DM)	Not Connected			
[Output slot 27b] Output 27-E (DMC-CATO-HD) (HDMI)	-	-	48	-
[Output slot 28a] Output 28 (DMC-CATO-HD) (DM)	-	-	48	-
[Output slot 29a] Output 29 (DMC-CATO-HD) (DM)	-	-	48	-
[Output slot 29b] Output 29 (DMC-CATO-HD) (HDMI)	-	-	48	-
[Output slot 30a] Output 30 (DMC-CATO-HD) (DM)	-	-	48	-
[Output slot 31a] Output 31 (DMC-CATO-HD) (DM)	-	48	48	-
[Output slot 31b] Output 31 (DMC-CATO-HD) (HDMI)	EDID cannot be read from sink. Check cabling and ensure sink device is on.			
[Output slot 32a] Output 32-E (DMC-CATO-HD) (DM)	-	-	48	-

'Not connected' means that we have detected that hotplug is low. A device connected to this output may be off or switched to another input.

Audio Formats Detected on HDMI Loop out EDIDs

This table shows the Extended Display Identification Data (EDID) information regarding audio formats reported by each device connected to the HDMI loop outputs of the input cards on the DigitalMedia system. These are indications from the connected devices of what audio formats they support.

Audio Formats Supported by Loop Outputs (Max sampling rate for each format shown in kHz)	Linear PCM 2
[Input slot 01] Input 1-E (DMC-HD-DSP) (Local HDMI)	Not Connected
[Input slot 02] Input 2 (DMC-HD-DSP) (Local HDMI)	Not Connected
[Input slot 03] Input 3 (DMC-HD-DSP) (Local HDMI)	Not Connected
[Input slot 04] Input 4 (DMC-HD-DSP) (Local HDMI)	Not Connected
[Input slot 05] Input 5 (DMC-HD-DSP) (Local HDMI)	Not Connected
[Input slot 06] Input 6 (DMC-HD-DSP) (Local HDMI)	Not Connected
[Input slot 07] Input 7-E (DMC-CAT-DSP) (Local HDMI)	Not Connected
[Input slot 08] Input 8 (DMC-CAT) (Local HDMI)	Not Connected
[Input slot 09] Input 9 (DMC-CAT-DSP) (Local HDMI)	Not Connected
[Input slot 10] Input 10 (DMC-C-DSP) (Local HDMI)	Not Connected
[Input slot 11] Input 11 (DMC-CAT-DSP) (Local HDMI)	48
[Input slot 12] Input 12 (DMC-CAT) (Local HDMI)	Not Connected
[Input slot 13] Input 13-E (DMC-CAT) (Local HDMI)	Not Connected
[Input slot 14] Input 14 (DMC-CAT) (Local HDMI)	Not Connected
[Input slot 15] Input 15 (DMC-CAT) (Local HDMI)	Not Connected
[Input slot 16] Input 16 (DMC-CAT) (Local HDMI)	Not Connected
[Input slot 17] Input 17 (DMC-HD-DSP) (Local HDMI)	Not Connected
[Input slot 18] Input 18 (DMC-HD-DSP) (Local HDMI)	Not Connected
[Input slot 19] Input 19-E (DMC-HD-DSP) (Local HDMI)	Not Connected
[Input slot 20] Input 20 (DMC-HD-DSP) (Local HDMI)	Not Connected
[Input slot 21] Input 21 (DMC-VID-RCA-D) (Local HDMI)	EDID not available on analog inputs
[Input slot 22] Input 22-E (DMC-VID-RCA-A) (Local HDMI)	EDID not available on analog inputs
[Input slot 23] Input 23 (DMC-VID4) (Local HDMI)	EDID not available on analog inputs
[Input slot 24] Input 24 (DMC-DVI) (Local HDMI)	Not Connected
[Input slot 25] Input 25-E (DMC-F) (Local HDMI)	Not Connected
[Input slot 26] Input 26 (DMC-F-DSP) (Local HDMI)	Not Connected
[Input slot 27] Input 27 (DMC-F) (Local HDMI)	Not Connected
[Input slot 28] Input 28 (DMC-S-DSP) (Local HDMI)	Not Connected
[Input slot 29] Input 29-E (DMC-F-DSP) (Local HDMI)	Not Connected
[Input slot 30] Input 30 (DMC-F) (Local HDMI)	Not Connected
[Input slot 31] Input 31 (DMC-F-DSP) (Local HDMI)	Not Connected
[Input slot 32] Input 32-E (DMC-F) (Local HDMI)	Not Connected

'Not connected' means that we have detected that hotplug is low. A device connected to this output may be off

or switched to another input.

Appendix A – Test Failures that will generate open items and important notices, and what they mean

Open Items:

Item	Corrective Action
Output device's EDID cannot be read	The device connected to the specified output may be turned off, or the device may not be communicating correctly with the DM switcher. If the device is already on, verify all cabling between the switcher and the device.
Cable length check failed	Re-terminate and verify the M cable on the specified output.

Important Notices:

Item	Corrective Action
Your source supports fewer KSVs than are needed in the system to route to all outputs simultaneously	This is a hardware limitation of the source device. The only corrective action to enable full matrix switching is to replace the source with one that supports more KSVs. Crestron maintains a list of source KSV support here: http://www.crestron.com/hdcplimits
Non-DM cable is used in the system	This flag is reported based on the settings applied on the front panel. The only corrective action is to install DM cable.
An input EDID is configured to report support for less than 3 video resolutions.	Each input should ideally be configured to support a few resolutions, so if the source cannot support some of them, it can still output the correct video format. In DigitalMedia Tools, edit the EDID on the specified input to add more video resolution to the list.
Cable length too long/short	The DM cable installed on this output is not of the correct length (15-150'). If you have verified the cable is the correct length, re-terminating the 'M' cable may provide a more accurate result.

Appendix B – DEMONSTRATION AND ACCEPTANCE TESTING section of HD-DTDS

The demonstration and acceptance tests shall be done by a Crestron DigitalMedia Certified Engineer (DMC-E) The contractor shall provide a copy of the following information in electronic format in order to verify the AV switching equipment has been installed and configured correctly:

- The video timing, HDCP use and audio format of each source when operating (not needed for walk-in equipment)
 - The video timings and supported audio formats for each connected sink
 - The video timings and supported audio formats presented in the EDID to each source
 - The length of cable used on all shielded twisted pair cable used for AV distribution
-

Appendix C – Popular Video Timings

Index	H Active Size	V Active Size	Refresh Rate (Hz)	Data Rate (Gbps)	Name	Type
1	640	480	60	0.75		PC
2	720	480	30	0.81	480i	NTSC Video
3	720	480	60	0.81	480p	NTSC Video
4	720	576	25	0.81	576i	PAL Video
5	720	576	50	0.81	576p	PAL Video
6	800	600	60	1.20		PC
7	848	480	60	0.99		PC
8	1024	768	60	1.95		PC
9	1280	720	50	2.22	720p50	PAL Video
10	1280	720	60	2.22	720p60	NTSC Video
11	1280	768	60	2.37		PC
12	1280	768	60	2.04	Reduced Blanking	PC
13	1280	800	60	2.49		PC
14	1280	800	60	2.16	Reduced Blanking	PC
15	1280	960	60	3.24		PC
16	1280	1024	60	3.24		PC
17	1360	768	60	2.55		PC
18	1366	768	60	2.55		PC
19	1366	768	60	2.16	Reduced Blanking	PC
20	1400	1050	60	3.63		PC
21	1400	1050	60	3.03	Reduced Blanking	PC
22	1440	900	60	3.18		PC
23	1440	900	60	2.64	Reduced Blanking	PC
24	1600	900	60	3.24	Reduced Blanking	PC
25	1600	1200	60	4.86		PC
26	1680	1050	60	4.38		PC
27	1680	1050	60	3.57	Reduced Blanking	PC
28	1920	1080	25	2.22	1080i 25Hz	PAL Video
29	1920	1080	30	2.22	1080i 30Hz	NTSC Video
30	1920	1080	24	2.22	1080p 24Hz	Video
31	1920	1080	50	4.44	1080p 50Hz	PAL Video

31	1920	1080	50	6.75	1080p 50Hz (Deep Color)	PAL Video
32	1920	1080	60	4.44	1080p 60Hz	NTSC Video
32	1920	1080	60	6.75	1080p 60Hz (Deep Color)	NTSC Video
33	1920	1200	60	4.62	Reduced Blanking	PC
34	2048	1080	24	2.22	2048x1080 24Hz	Video
35	2048	1152	60	4.86	Reduced Blanking	PC