

DPM CTS r1.1 Errata E1

Published 02/01/20

This errata contains all SCRs published through 02/01/20.

The following SCRs are included in DPM_CTS_r1.1_E1:

- DPM CTS r1.1 Language Clarification SCR v0.90



VESA STANDARDS CHANGE REQUEST FORM

To be Filled in by Submitter (Refer to VESA Document VP235F, Section 5):

TITLE:	DPM_CTS_1.1_Language_Clarification_SCR v0.90
AFFECTED DOCUMENT:	DisplayHDR_CTS_v1.1.pdf
REVISION CATEGORY:	Category 3 – “New Mandatory Features”
SUBMITTED TO:	Task Group
SPONSOR:	Roland Wooster, Intel Corp. Jim Choate, VESA Compliance Manager

SCR REVISION HISTORY	
(DATE)	(CHANGE)
10/27/2019	Initial Submission of SCR
10/29/2019	Rename of SCR title and increment to version 0.51
11/13/2019	v0.80 – changed “shall be measured within 5 seconds” to “10 seconds” for measurements involving black level testing, i.e. dual corner box, and checkerboard. Added a note about the potential addition of CA-P427 probe as a suggested measurement tool.
12/17/2019	V0.90 – ready for adoption vote – changes since v.80: highlighted in yellow. 1. Added both Konica Minolta CA-P427 and CA-VP427 probes to replace the CA-410 (family name). 2. Added the caveat to the black luminance measurements that if the probe takes more than 10 seconds to take the recording it must commence within the 10 seconds. 3. Removed all the “Supporting informational text” previously in green.

(add more rows as needed)

To be Filled in by VESA Office:

VESA SCR NUMBER:	(To be assigned by VESA office)
SCR ENTRY DATE:	10/29/2019

To be Filled in by Task Group or VESA Office

SCR ADOPTED, REJECTED, or otherwise DISPOSITIONED for other action	SCR is (adopted) or (rejected) or (Dispositioned for other action) If rejected, explain reason for acceptance or rejection If dispositioned, explain action or plan for action (such as including in future draft specification revision, or re-visiting at future date, or other)
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DATE SCR ADOPTED or REJECTED or DISPOSITIONED	12/28/2019 Adopted
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1 Summary of the Proposed Change(s)

- Replaces the word “should” with “shall” for several of the test criteria directions. Adds definition upon the timing of testing which previously was undefined.

1.1 IPR (Intellectual Property Rights) declaration, if any

- None.

1.2 Benefits as a Result of the Changes

- Clarifies testing requirements with hard requirements instead of recommendations.

1.3 Assessment of the Impact

- Device certification is likely unaffected.

1.4 Analysis of the Device Hardware Implication

- Likely none.

1.5 Analysis of the Device Software Implications

- None.

1.6 Analysis of the Compliance Test & Interop Implications

- Eliminates some variables in the test procedure, making test determination of pass/fail easier. Impact to testing duration is that depending upon how many measurement probes are being used, and how quickly they can be moved certification testing will take less than 8 minutes longer.

1.7 New Referenced Documents Resulting from Change

- None

1.8 Attachments

None.

2 Proposed Document Change(s) or Addition(s)

Instructions & Color Key

- Delete the red ~~strikeout~~ text.
- Add the text in red.
- Black text is original CTS v1.1 content that remains.

5.1.1 – 10% White Patch Test

Luminance is measured at the screen's center once per minute for 30 minutes, using the same panel. The first measurement ~~should~~ shall be obtained within 5 seconds of when the **white** patch begins to display. The **red** box indicated in [Figure 5-1](#) is provided for illustrative purposes only.

5.1.3 – Full Screen White Test

Luminance is measured at the screen's center once per minute for 30 minutes, using the same panel. The first measurement ~~should~~ shall be obtained within 5 seconds of when the **white** screen begins to display.

B.8 – Appendix for Rise Time

The Rise-time test uses a patch that switches ON for 5 seconds, OFF for 5 seconds, and then loops indefinitely. The first five rise times from **black** to **white** ~~should~~ shall be recorded and used for the measured values of this test.

5.2.1 Dual Corner Box Test

~~“Screen center and both **white** corners are measured after allowing the display sufficient time to stabilize”~~

Screen center and both **white** corners shall all be measured within 10 seconds of the start of the test. In the case where one measurement device is being used that needs to be repositioned between each of the three test points the display device shall be returned to a black screen while the probe is being repositioned between each of the three measurements. The test can be started three times to enable repositioning of the probe, and recording of each of the three test points each within 10 seconds of the start of the test. If testing with the DisplayHDR automated test tool, pressing the “C” key initiates a 60 second black screen that can be used for this exact purpose, as it then automatically returns to the test at the end of the 60 seconds cool down period.

In the case where the measurement probe takes longer than 10 seconds to measure the black level, the measurement must commence within 10 seconds of the test image being displayed.

5.2.2.1 – Checkerboard Test Measurement.

Each of the four measurements on each Checkerboard luminance test shall be measured within 10 seconds of the start of the test. Where one measurement probe is being used for each of the four measurement locations and needs to be repositioned, a black screen shall proceed each of the tests. If using the DisplayHDR automated test tool the “C” key can be used to initiate a 60 second black screen, thus making it easy to reposition the probe, then ensure the display has a 60 second black out period, and then take the measurement within the first 10 seconds of the checkerboard image being displayed.

In the case where the measurement probe takes longer than 10 seconds to measure the black level, the measurement must commence within 10 seconds of the test image being displayed.

9.2 White Point Measurement Methodology

Measurement ~~is~~ shall be performed at the screen's center within 5 seconds of the relevant luminance test patch being displayed. The tests shall be measured in sequentially increasing luminance levels i.e. from lowest to highest luminance measurements. The PQ code values that are used for the test are chosen to be divisible by 4, thus enabling 8-bit signal generators to be used, if necessary.

3.4 Measurement Device Name Update

- For DisplayHDR certification:
 - Konica Minolta™ CA-310, ~~CA-410~~ CA-P427, CA-VP427, and CS-2000

- End of Document -