

STANDARDS NEW ACTIVITY REPORT FORM (SNARF)

Task Force (TF) in which work is to be carried out: Picture Quality Evaluation task force Submitted by: Jaehong Kim Company: LG Display Email: Pro_ihim@lgdisplay.com Phone: +82-10-5567-6191 Refer to Procedure Manual § 2.2.4 for more information on properly filling out the SNARF. I. Rationale: a: Describe the need or problem addressed by this activity. Indicate the customer, what benefits they will receive, and if possible, quantify the impact on the return on investment [ROI] if the Document is implemented.) Motion blur is a characteristic of displays that causes moving elements to appear blurry or to have a long trail following them, sometimes called smearing. There are a few elements of a display that cause motion blur, but one of the largest reasons is the response time of the pixels. A slow response time leads to motion blur with fast-moving objects, black smearing in dark scenes, or ghosting when there's an overshoot. Generally, we measure the rising or falling times of the temporal step response resulting from various gray-to-gray transitions (including black and white) at a fixed frame frequency and report the min, max, and average of these measurements. Recently, the frame frequency and report the min, max, and average of these measurements. Recently, the frame frequency and report the min, max and average of these measurements. Recently, the frame frequency and report the min, max and average of these measurements. Recently, the frame frequency and report the min, max and average of these measurements. Recently, the frame frequency and report the min, max and average of these measurements. Recently, the frame frequency and report the min, max and average of these measurements. Recently, the frame frequency and report the min, max and average of these measurements. Recently, the frame frequency and report the min, max and average of these measurements. Recently, the frame frequency is higher, and it is possible to perform variable sync such as, adaptive sync, free sync, and G-sync could have a	Date Prepared: <u>06/30/2022</u>	Revised (if Applicable):
Originating TC Chapter: Korea Task Force (TF) in which work is to be carried out: Picture Quality Evaluation task force Submitted by: Jaehong Kim		ponse Time Evaluation of Displays with Variable
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	☐ 4: Slight effect or effect not determinable	
☐ II: Some Difficulty – Disagreements on known requirements exist, but developing consensus is possible	☐ I: No Difficulty – Proven concepts and techniques	exist or quick agreement is anticipated

■ III: Difficult – Limited expertise and resources exist and/or achieving consensus is difficult



☐ IV: Extremely Difficult – Expertise and resources are scarce and/or achieving consensus is very difficult

2. Scope:

a: Describe the technical areas to be covered or addressed by this Document development activity.

(For Subordinate Standards, list common concepts or criteria that the Subordinate Standard inherits from the Primary Standard, as well as differences from the Primary Standard.)

To introduce how to measure and evaluate the response time for gaming displays.

Current response time measurement methods for visual displays are listed as follows:

1. IEC 62341-6-3:2017 "Organic light-emitting diode (OLED) displays - Part 6-3: Measuring methods of image quality"

Methods for viewing angle measurement is list below:

1. ICDM IDMS version 1.1 (Section 10.1 ~ 10.2) (2021).

b: Expected result of activity	
■ New Standard or Safety Guideline (including	$\hfill\square$ Line-item revision to two or more existing Standards
replacement of an existing Standard or Safety Guideline)	or Safety Guidelines
	\square Reapproval of a Standard or Safety Guideline
☐ New Subordinate Standard to an existing Standard or to a new Primary Standard to be developed concurrently with this new Subordinate Standard	☐ Removal of a Standard or Safety Guideline
	$\hfill\square$ Withdrawal of a Standard or Safety Guideline
□ New Preliminary Standard	$\hfill\square$ Reinstatement of a Standard or Safety Guideline
☐ Major revision to an existing Standard or Safety	☐ Publication of an existing Standard or Safety
Guideline	Guideline as an American National Standard
□ Line-item revision to an existing Standard or Safety Guideline	☐ New Auxiliary Information
	☐ Modification of existing Auxiliary Information
For a new Subordinate Standard, identify the Primary	Standard here:
	rts of the Standard(s) or Safety Guideline(s) that are to be
revised. (Check all that apply.)	
☐ Modification of an existing part of Standard(s) or Sa Complementary Files, and Supplementary Materials	afety Guideline(s) including Appendices,
\square Addition of one or more Appendices or Complemer	ntary Files to an existing Standard or Safety Guideline
\square Addition of one or more Related Information section Guideline	ns or Various Materials to an existing Standard or Safety
\square Revision or addition of one or more Subordinate St	andards to an existing Primary Standard

November 2021



For Standards, identify the Standard Subtype below	w:
☐ Classification	☐ Guide
☐ Practice	☐ Specification
■ Test Method	☐ Terminology
☐ Miscellaneous (describe:)	
3. Projected Timetable for Completion:	
a: General Milestones	
a. Activity Start: 06/30/2022	b. 1st Draft by: 10/04/2022
c. (Optional) Informational Ballot by:	d. Letter Ballot by: 10/13/2022
e: TC Chapter Approval By: 09/30/2023	
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4. Liaisons:	
Regions/Locales that should be kept informed regarding (Refer to SEMI Standards organization charts and global ted All FPD Metrology TC Chapters b: List any planned Type I Liaisons with external nonproduction of the company of the	chnical committee charters and scopes as needed.) ofit organizations (e.g., SDO) that should receive Draft his activity and be notified when the Letter Ballot is
E Safety Considerations	
5. Safety Considerations:	
The resulting Document is expected (Check one):	
☐ to be a Safety Guideline	
■ NOT to be a Safety Guideline	
NOTE FOR 'to be a Safety Guideline': When all safety-related infortechnically sound and complete – Refer to § 15.1 of the Regulation NOTE FOR 'NOT to be a Safety Guideline': When all safety-related technically sound and complete.	s for special procedures to be followed.
6. Intellectual Property Considerations:	

a: For a new Standard or Safety Guideline and for any part to be modified or added in a Revision of published

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■ the use of patented technology is NOT required.

Standards and Safety Guidelines (Check one):



□ patented technology is intended to be included in the proposed Standard(s) or Safety Guideline(s). (If the second box is checked, check one): □ Letter of Intent received □ Letter of Intent not received b: For Revision, Reapproval, Reinstatement, or Withdrawal of existing Standard(s) and Safety Guideline(s) (Check one):
☐ there is no known material patented technology necessary to use or implement the Standard(s) and Safety Guideline(s)
☐ there is previously known material patented technology necessary to use or implement the Standard(s) and Safety Guideline(s)
c: The body of the Document and any Appendices, Complementary Files, Related Information sections, or Various Materials that may or may not be a part of the Document by reference (Check one):
□ will incorporate Copyrighted Item
■ the incorporation of Copyrighted Item will NOT be required
NOTE FOR 'the use of patented technology or the incorporation of Copyrighted Item(s) is NOT required': If in the course of developing the Document, it is determined that the use of patented technology or Copyrighted Item(s) is necessary for the Document, the provisions of <i>Regulations</i> § 16 must be followed.
NOTE FOR 'will incorporate Copyrighted Item': A copyright release letter must be obtained from the copyright owner prior to publication.
7. Comments, Special Circumstances:
8. TC Member Review (Check one):
\Box took place between (<i>put dates here:</i> $\underline{\text{MM/DD/YYYY}}$ and $\underline{\text{MM/DD/YYYY}}$) before approval at the TC Chapter Meeting, or
■ took place between (put dates here:08/16/2022 _ and08/30/2022 _) before approval by the GCS, or
□ is not required for this SNARF. NOTE FOR 'TC Member Review': A TC Member Review is required by the <i>Regulations</i> for a period of at least two weeks before approval of a new, or a major revision of an existing, Standard or Safety Guideline. (Refer to <i>Regulations</i> ¶ 8.2.1)
9. Approval Dates: TC Chapter or GCS: Recorded in TC Chapter Minutes:

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