



FPD Metrology Korea TC Chapter Meeting Summary and Minutes

August 13, 2024, 14:00 – 16:30 (KST)

TC Chapter Announcements

Next TC Chapter Meeting

Oct 24, 2024, 14:00 – 16:00 (KST)

at SEMI Korea office in Seoul. (Hybrid)

Table 1 Meeting Attendees

Italics indicate virtual participants

Co-Chairs: Jaehong Kim (LG Display) / Yongwoo Yi (Samsung Display)

SEMI Staff: Natalie Shim (SEMI Korea)

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
<i>LG Display (LGD)</i>	<i>Kim</i>	<i>Jaehong</i>	Samsung Display	Lee	Seungmin
LG Display (LGD)	Jeong	Jongho	Samsung Display	Yi	Yongwoo
<i>LG Electronics</i>	<i>Ryu</i>	<i>Ji Bong</i>	SEMI Korea	Shim	Natalie
LMS	Kim	Il-ho	SEMI Korea	Kim	Kyungwon
Samsung Display	Kim	Su Young			

Table 2 Leadership Changes

None

Table 3 TC Chapter Structure Changes

None

Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
7156A	Revision to SEMI D61-0723, Test Method of Perceptual Angle for OLED Displays with title change to: Test Method of Viewing Angle for Flat Panel Displays using Color Volume	Fail and return to TF for rework.

#1 **Passed** ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.

#2 **Failed** ballots and line items were returned to the originating task forces for re-work and re-balloting or abandoning.

Table 5 Activities Approved by the GCS between meetings of the TC Chapter

None



Table 6 Authorized Activities

None

Table 7 Authorized Ballots

None

Table 8 SNARF(s) Granted a One-Year Extension

None

Table 9 SNARF(s) Abolished

None

Table 10 Standard(s) to receive Inactive Status

None

Table 11 New Action Items

#	TF	Details
2024-0813-1	Perceptual Image Quality TF	To be decided if D76-0318 (Test Method for Viewing Angle Characteristic Using Reference Color on Visual Displays) needs a 5-year review by the next meeting.

Table 12 Previous Meeting Action Items

None



1 Welcome, Reminders, and Introductions

Yongwoo Yi (Samsung Display) called the meeting to order at 14:00 (KST). The meeting reminders on antitrust issues, intellectual property issues, and holding meeting with international attendees were reviewed. Attendees introduced themselves.

Attachment 1: 01, FPDM_Agenda_Aug13_2024.pdf
02, Required Meeting Elements March 2024.pdf

2 Review of Previous Meeting Minutes

2.1 The TC Chapter reviewed the minutes of the previous meeting.

Motion: Review and Approval of Previous Meeting Minutes
By / 2nd: Jongho Jeong (LG Display) / SeungMin Lee (Samsung Display)
Discussion: None
Vote: 4-0, Motion carried

Attachment 2: 03, FPDM_KR_Minutes_20240613.pdf

3 Liaison Reports

3.1 FPD Metrology Japan TC Chapter

Natalie Shim (SEMI Korea) reported for the FPD Metrology Japan TC Chapter. Of note:

3.1.1 Meeting Information

- Last Meeting: June 21, 2024 at Japan office and OVTCCM
- Next Meeting: October 21, 2024 at Japan office and OVTCCM

3.1.2 Committee Structure Changes

- FPD Metrology Maintenance task force is newly formed.
- Co-leaders: Ryoichi Watanabe (Japan Display), Akira Kawaguchi (Otsuka Electronics), Tadahiro Furukawa (Yamagata Univ)

3.1.3 Authorized Activities

- Doc. XXXX, Revision to SEMI D31-0318, Guide for Definition of Measurement Index (DSemu) for Luminance Mura in FPD Image Quality Inspection, with title change to: Guide for Definition of Measurement Index (DSemu) for Luminance Mura in FPD Image Quality

3.1.4 Authorized Ballots for Cycle 6, 2024

- Doc. 7256, Revision to SEMI D31-0318, Guide for Definition of Measurement Index (DSemu) for Luminance Mura in FPD Image Quality Inspection, with title change to: Guide for Definition of Measurement Index (DSemu) for Luminance Mura in FPD Image Quality

3.1.5 Task Force Highlight

- Plan to address 5-year review documents as well as to review the proposed documents of the global FPD Metrology TC Chapter.
- TC authorized the SANRF for Revision to SEMI D31-0318 and ballot for cycle 6, 2024

Attachment 3: 04, FPD Met_JA_Liaison Report Aug 2024_R0.pdf

3.2 FPD Metrology Taiwan TC Chapter

Natalie Shim reported for the FPD Metrology Taiwan TC Chapter. Of note:

3.2.1 Meeting Information

- Last Meeting: February 23, 2024, OVTCCM
- Next Meeting: October 4, 2024, OVTTTCM

3.2.2 Ballot Adjudication

3.2.2.1 Doc. 6632C (New Standard, Test Method of Flicker Nuisance for Wide-Visual-Field Displays) passed technical review.

3.2.2.2 Doc. 6201B (New Standard, Guide for Tone Reproduction Curves for Transparent Displays) passed technical review.

3.2.3 Authorized Ballots for Cycle 4, 2024

3.2.3.1 Doc. 7220 (Reapproval of SEMI D59-0519, Terminology for 3D Display)

3.2.3.2 Doc. 7221 (Reapproval of SEMI D62-0619, Test Method for Measurement of LED Light Bar for Liquid Crystal Displays)

3.2.4 Task Force Highlight

3.2.4.1 Transparent Display Task Force

3.2.4.1.1 Doc. 6201B (New Standard, Guide for Tone Reproduction Curves for Transparent Displays) is submitted to cycle 7, 2023, and passed committee review with super clean. It is in the A&R review process.

3.2.4.1.2 SNARF XXXX (Reapproval of SEMI D59-0519, Terminology for 3D Display) approved and will issue a reapproval ballot.

3.2.4.1.3 The task force discussed the development schedule for Doc. 6737 (New Standard, Test Method of Binocular Image Fusion for Augmented Reality Transparent Displays). The details will be discussed at the next committee meeting.

3.2.4.2 Flexible Display Task Force

3.2.4.2.1 Doc. 6632C (New Standard, Test Method of Flicker Nuisance for Wide Visual-Field Displays) is submitted to cycle 7, 2023, and passed committee review with super clean. It completed A&R process.

3.2.4.2.2 SNARF 7221 (Reapproval of SEMI D62-0619, Test Method for Measurement of LED Light Bar for Liquid Crystal Displays) is approved and submitted the ballot at cycle 4, 2024. The details will be discussed at the next committee meeting.

3.2.4.3 Maintenance Task Force

3.2.4.3.1 Doc. 6960 (Revision to SEMI D57, Guide for Definition of Measurement Index (VCT) for Mura in FPD Image Quality Inspection) completed A&R process.

3.2.4.3.2 Doc. 6961 (Line Item Revision to SEMI D58 Terminology and Test Pattern for the Color Breakup of Field Sequential Color Display) completed A&R process.

Attachment 4: 05, FPD Taiwan Liaison Report_20240223_R1.pdf

3.3 SEMI Staff Report

Natalie Shim gave the SEMI Staff Report. Details are in the attached report.

3.3.1 SEMI Global 2024 Calendar of Events



3.3.1.1 Starting in 2025, SEMICON West is scheduled to be held alternately every other year between Arizona (AZ) and California (CA) in the United States.

3.3.2 SEMI Standards Publications

3.3.2.1 Total SEMI Standards in the portfolio: 1,088 (Including 342 Inactive standards)

3.3.3 SEMI Regulations & Procedure Manual & Online Voting System Updated

3.3.4 Use of Connect@SEMI for TF Management and Document Development Depository

3.3.5 Five-Year Review

The committee members will decide on further action at the next meeting.

- SEMI D76-0318, Test Method for Viewing Angle Characteristic Using Reference Color on Visual Displays

Attachment 5: 06, Staff Report March 2024 v4_KR.pdf

4 Ballot Review

NOTE 1: TC Chapter adjudication on ballots reviewed is detailed in the Audits & Review (A&R) Subcommittee Forms for procedural review. The A&R forms are available as attachments to these minutes. The attachment number for each balloted document is provided under each ballot review section below.

4.1 Doc. 7156A (Revision to SEMI D61-0723, Test Method of Perceptual Angle for OLED Displays with title change to: Test Method of Viewing Angle for Flat Panel Displays using Color Volume)

- The ballot is failed based on the approval rate condition. Please refer to the attachment for the details.

Attachment 6: 07, 7156A_A&R_v2.pdf

5 Subcommittee and Task Force Reports

5.1 Automotive Display Task Force

- No update

5.2 Picture Quality Evaluation Task Force

- No update

6 Old Business

None

7 New Business

None

8 Next Meeting and Adjournment

The next meeting is scheduled for Thursday, October 24, 2024 at SEMI Korea office in Seoul. See <http://www.semi.org/standards-events> for the current list of events.

Adjournment: 16:30.



Respectfully submitted by:

Natalie Shim

Manager, Standards

SEMI Korea

Phone: 82.2.531.7808

Email: eshim@semi.org

Minutes tentatively approved by:

Jaehong Kim (LG Display)	Yes
Yongwoo Yi (Samsung Display)	Yes

Table 13 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
01, FPD Agenda_Aug13_2024.pdf	05, FPD Taiwan Liaison Report_20240223_R1.pdf
02, Required Meeting Elements March 2024.pdf	06, Staff Report July 2024 v4.pdf
03, FPD KR Minutes_20240613.pdf	07, 7156A_A&R_v2.pdf
04, FPD Met_JA_Liaison Report_Aug 2024_R0.pdf	

#1 Due to file size and delivery issues, attachments must be downloaded separately. A .zip file containing all attachments for these minutes is available at www.semi.org. For additional information or to obtain individual attachments, please contact Natalie Shim at the contact information above.