



# FPD Metrology Korea TC Chapter Meeting Summary and Minutes

December 8, 2022, 15:00 – 17:00 (KST)

## TC Chapter Announcements

*Next TC Chapter Meeting*

April 7, 2023, 15:00 – 17:00 (KST)

OVTCCM (hybrid)

## Table 1 Meeting Attendees

*Italics indicate virtual participants*

**Co-Chairs:** Jongho Chong (LG Display), Kyungjin Kang (Macro Image Tech)

**SEMI Staff:** Natalie Shim (SEMI Korea)

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Samsung Display	Kim	Su Young	<i>LG Electronics (LGE)</i>	Lee	Myongyoung
Samsung Display	Lee	Seungmin	<i>LG Display (LGD)</i>	Kim	Jaehong
Samsung Display	Seo	Yong Woo	<i>LG Display (LGD)</i>	Chong	Jongho
<i>Macro Image Tech</i>	<i>Kang</i>	<i>Kyungjin</i>			

## Table 2 Leadership Changes

None

## Table 3 Committee Structure Changes

None

## Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
6659C	Revision to SEMI D75-0118, Test Method for Color Reproduction and Perceptual Contrast of Displays	<b>Passed as balloted</b>
6913B	Line Item Revision to SEMI D61-1110, Test Method of Perceptual Angle for OLED Displays	<b>Passed as balloted</b>
6675	New Standard, Test Method for Response Time Evaluation of Displays with Variable Refresh Rate	<b>Failed and returned for rework</b>
6676	Revision to D71-0614 with Title Change to: Test Method of PDP Tone and Color Reproduction for Flat Panel Displays	<b>Passed as balloted</b>

#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**

#	When	TF	Details
6975B	Cycle 2-22	Picture Quality Evaluation TF	New Standard, Test Method for Response Time Evaluation of Displays with Variable Refresh Rate

**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**

None

**Table 12 Previous Meeting Action Items**

None

## 1 Welcome, Reminders, and Introductions

Kyungjin Kang (LG Electronics) called the meeting to order at 15:00 (KST). The meeting reminders on antitrust issues, intellectual property issues, and holding meetings with international attendance were reviewed. Attendees introduced themselves.

**Attachment:** 01, Meeting Agenda.pdf,  
02, Meeting Reminders.pdf

## 2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

**Motion:** Approve the previous meeting minutes with as written.  
**By / 2<sup>nd</sup>:** Suyoung Kim (Samsung Display) / Jae Hong Kim (LGD)  
**Discussion:** None  
**Vote:** 6-0, Motion carried

**Attachment:** 03, KR FPDM\_minutes\_Oct06\_2022.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 10, 2022 at Japan office and OVTCCM (hybrid)
- Next Meeting: Date to be decided

#### 3.1.2 Leadership Changes

- Satoshi Tomioka (Sony Group) has been approved as a co-chair on April 15, 2022.

**Attachment:** 04, 202206\_JA\_FPD\_Met\_LiaisonReport.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: August 5, 2022, OVTCCM
- Next Meeting: February 10, 2023, OVTCCM

#### 3.2.2 Ballot Adjudication

- Doc. 6632, New Standard, Test Method of Flicker Nuisance for Wide-Visual-Field Displays - **Passed**

#### 3.2.3 Authorized Activities

- SNARF XXXX, Revision to SEMI D57, Definition of Measurement Index (VCT) for Mura in FPD Image Quality Inspection.
- SNARF XXXX, Line Item Revision to SEMI D58, Terminology and Test Pattern for the Color Breakup of Field Sequential Color Display

#### 3.2.4 Authorized Ballots (Cycle 7 to 8, 2022)

- Doc. 6201A, New Standard, Guide for Tone Reproduction Curves for Transparent Displays.
- Doc. 6960, Revision to SEMI D57, Definition of Measurement Index (VCT) for Mura in FPD Image Quality Inspection.
- Doc. 6961, Line Item Revision to SEMI D58, Terminology and Test Pattern for the Color Breakup of Field Sequential Color Display.

### 3.2.5 Task Force Highlight

#### 3.2.5.1 Flexible Displays Task Force

##### 3.2.5.1.1 6632 (New Standard, Test Method of Flicker Nuisance for Wide Visual-Field Displays.)

- Discussed the New draft in TF meeting on 2021/8/6, 10/1, then approved on 12/3
- Scheduled submission for the next coming TC meeting on 2022/2/25
- TC authorized the ballot for cycle 3 or 4, 2022

#### 3.2.5.2 Transparent Display Task Force

##### 3.2.5.2.1 6201 (New Standard, Guide for Tone Reproduction Curves for Transparent Displays)

- New draft discussion in TF meeting on 2022/02/25
- Scheduled submission for the next coming TC meeting TBD,2022
- TC authorized the ballot for cycle 7 or 8, 2022.

##### 3.2.5.2.2 6737 (New Standard, Test Method of Binocular Image Fusion for Augmented Reality Transparent Displays)

- Content discussion for draft in TF meeting on 2021/8/6, 10/1, 12/3
- Scheduled to have 1st Draft in 2022

#### 3.2.5.3 Maintenance Task Force

##### 3.2.5.3.1 Two new activities were submitted below.

- SNARF XXXX, Revision to SEMI D57, Definition of Measurement Index (VCT) for Mura in FPD Image Quality Inspection.
- SNARF XXXX, Line Item Revision to SEMI D58, Terminology and Test Pattern for the Color Breakup of Field Sequential Color Display

**Attachment:** 05, FPD-M Taiwan Liaison report\_2022\_Oct.pdf

### 3.3 SEMI Staff Report

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

#### 3.3.1 SEMI Global Calendar of Events

#### 3.3.2 Critical Dates for SEMI Standards Ballots in 2022

#### 3.3.3 SEMI Standards Publications

#### 3.3.4 SEMI Corporate PPT Template Introduction

**Attachment:** 06, Staff Report Oct\_2022.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 Document 6659C (Revision to SEMI D75-0118, Test Method of Perceptual Angle for OLED Displays)

- The ballot passed TC Chapter review as balloted. See the attachment for ballot adjudication.

**Attachment:** 07, 6659C\_Procedural Review\_passed.pdf

#### 4.2 Document 6913B (Line Item Revision to SEMI D61-1110, Test Method of Perceptual Angle for OLED Displays)

- The ballot passed TC Chapter review as balloted. See the attachment for ballot adjudication.

**Attachment:** 08, 6913B\_Procedural Review\_passed.pdf

#### 4.3 Document 6676 (Revision to D71-0614 with Title Change to: Test Method of PDP Tone and Color Reproduction for Flat Panel Displays)

- The ballot passed TC Chapter review as balloted. See the attachment for ballot adjudication.

**Attachment:** 09, 6676\_Procedural Review\_failed.pdf

#### 4.4 Document 6675 (New Standard, Test Method for Response Time Evaluation of Displays with Variable Refresh Rate)

- The ballot failed TC Chapter review and returned to the task force for rework. See the attachment for ballot adjudication.

**Attachment:** 10, 6675\_Procedural Review\_passed.pdf

## 5 Subcommittee and Task Force Reports

### 5.1 *Perceptual Image Quality Task Force*

- Reviewed cycle 8 ballot comments. No written report was submitted.

### 5.2 *Picture Quality Evaluation task force*

- Reviewed cycle 8 ballot comments. No written report was submitted.

### 5.3 *Perceptual Viewing Angle task force*

- No Update

## 6 Old Business

None

## 7 New Business

None

## 8 Next Meeting and Adjournment

The next meeting is scheduled for Friday, April 7, 2023 at SEMI Korea office in Seoul. See <http://www.semi.org/standards-events> for the current list of events.

Adjournment: 17:00.



Respectfully submitted by:

Natalie Shim

Manager, Standards

SEMI Korea

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Minutes tentatively approved by:

Jongho Chong (LG Display), Co-chair	Yes
Kyungjin Kang (Macro Image Tech), Co-chair	Yes

**Table 13 Index of Available Attachments<sup>#1</sup>**

<i>Title</i>	<i>Title</i>
01, Meeting Agenda_Dec 8_2022.pdf	06, Staff Report Nov_2022.pdf
02, Meeting reminder.pdf	07, 6659C_Procedural Review_passed.pdf
03, KR FPDM_minutes_Oct06_2022.pdf	08, 6913B_Procedural Review_passed.pdf
04, 202206_JA_FPD_Met_LiaisonReport.pdf	09, 6676_Procedural Review_failed.pdf
05, FPD-M Taiwan Liaison report_2022_Oct.pdf	10, 6675_Procedural Review_passed.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](http://www.semi.org). For additional information or to obtain individual attachments, please contact Natalie Shim at the contact information above.