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or modified such Native File; and (ii) information generated automatically

by the operation of a computer or other information technology system when

- a Native File is created, modified, transmitted, deleted or otherwise manipulated by a user of such system.
- 4. "Static Image(s)" means a representation of ESI produced by converting a Native File into a standard image format capable of being viewed and printed on standard computer systems. A Tagged Image File Format (TIFF) image is an example of a Static Image.
- 5. "Load/Unitization file" means an electronic file containing information identifying a set of paper-scanned images or processed ESI and indicating where individual pages or files belong together as documents, including attachments, and where each document begins and ends. A Load/Unitization file will also contain data relevant to the individual Documents, including extracted and user created Metadata, coded data, as well as OCR or Extracted Text.
- 6. "OCR" means the optical character recognition file which is created by software used in conjunction with a scanner that is capable of reading text-based documents and making such documents searchable using appropriate software.
- 7. "Extracted Text" means the text extracted from a Native File and includes all header, footer and document body information.

B. Form and Format for the Production of ESI and Paper Documents Converted to Electronic Form

- 1. <u>Electronic Production of Paper Documents</u>
 - a. The parties will produce any paper Documents, including spreadsheets maintained in paper form, that have been scanned or otherwise converted into electronic form as of the time the documents are first produced in this litigation. The form of production shall be:

- 1	
1	i. TIFF images, consistent with the specifications in
2	Section I.B.2.b.;
3	ii. The appropriate Load/Unitization files in accordance
4	with Exhibit "A" and consistent with the
5	specifications in Section I.B.5.; and
6	iii. Any searchable OCR text of scanned paper
7	Documents created by the producing party, if any,
8	consistent with the specifications in Section I.B.4.
9	b. This Stipulation creates no obligation upon the producing
10	party to convert paper documents into electronic form.
11	c. If, however, the producing party has converted paper
12	documents into electronic form as of the time the documents
13	are first produced in this litigation, the producing party shall
14	produce those documents in accordance with this Stipulation
15	2. <u>Native Files to be Produced as Static Images</u>
16	a. Except as otherwise stated below, or by order of the Special
17	Master, Native Files will be produced to the requesting party
18	as Static Images together with Load/Unitization files
19	specified below.
20	b. All Static Images will be produced as single page Black &
21	White, Group 4 TIFF (.TIF or .TIFF) files at 300 x 300 dpi
22	resolution and 8.5 x 11 inch page size, except for documents
23	that in the producing party's reasonable judgment require a
24	different resolution or page size; provided, however, if a
25	color image is produced in black and white, the receiving
26	party may request the producing party to produce the origina
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1		color image, as single page, color Joint Photographic Experts
2		Group (.JPEG or .JPG) files.
3	c.	All Static Image file names shall match the Bates number
4		assigned to the image.
5	3. <u>Production</u>	of Native Files
6	a.	The parties agree to produce Native Files of spreadsheet
7		application files (e.g., MS Excel), presentation application
8		files (e.g. MS PowerPoint), and multimedia audio/video files
9		(e.g., .wav, .mpeg, .avi), subject to the right of the producing
10		party to object to the native production of files where such
11		production would result in the disclosure of information that
12		is protected from disclosure by the attorney-client privilege
13		or the work product doctrine.
14	b.	The parties agree to meet and confer informally regarding the
15		production of database application files (e.g., MS Access,
16		SQL, SAP) to determine the most reasonable form of
17		production based on the specific circumstances at hand.
18		Notwithstanding the foregoing, a party may elect to produce
19		Native Files of portable database application files (e.g.,
20		MS-Access) without the need to meet and confer regarding
21		the form of production.
22	c.	A receiving party may request that the producing party
23		produce the Native File corresponding to a produced Static
24		Image, subject to reasonable objection by the producing party.
25		The request for production of any specific Native Files(s)
26		shall include the Bates numbers of the TIFF documents to
27		identify the corresponding Native File. Any produced Native
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File will include the Bates number of the first page of the Bates range that corresponds to the TIFF image, followed by a carat delimiter, which shall be appended as a prefix to the file name.

- d. Through the pendency of the action, the producing party should exercise reasonable, good faith, efforts to maintain all preserved and collected Native Files in a manner that does not materially alter or modify the file or the Metadata.
- e. No party may attach to any pleading or any correspondence addressed to the Court, Special Master, or any adverse or third party, or submit as an exhibit at a deposition or any other judicial proceeding, a copy of any native format document produced by any party without ensuring that the corresponding Bates number and confidentiality legend, as designated by the producing party, appears on the document.

4. Production of Searchable Text

- a. ESI shall be produced with multi-page searchable Extracted
 Text. For ESI from which text cannot be extracted, OCR will
 be produced instead, but only to the extent the producing
 party has created OCR as of the time the documents are first
 produced in this litigation, consistent with Section B (1) of
 this agreement.
- b. Any such Extracted Text or OCR will be produced on a document level as .TXT files, with the Text filename matching the Bates number applied to the first page of the corresponding image file followed by .TXT. Text files will be located in a directory named "TEXT" that is separate from

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the TIFF image. Text files containing foreign,
non-English, language text must be converted to
standard 8-bit Unicode Transformation Format (UTF-8)
format by the producing party prior to production.

5. Production of Load/Unitization Files

- a. There will be two Load/Unitization files accompanying all productions of ESI. One will be a Metadata import file, in .dat format, that contains the agreed- upon Metadata fields in an ASCII text file using either Concordance default delimiters or ^ carat and | pipe delimiters to separate the fields and records. The second data file will be a cross-reference file that contains the corresponding image information. The acceptable formats for the cross-reference files are .log, .opt, .lfp. Image load files should indicate page breaks. A path to the corresponding .TXT file shall be included as a field in the Metadata import file.
- b. The appropriate Metadata import file will contain the Metadata fields detailed and described in Exhibit A to this stipulation and incorporated herein by reference, associated with each electronic document (or their equivalents), including the body of the document, to the extent the fields exist as electronic Metadata associated with the original electronic documents or are created as part of the electronic data discovery process. Party-specific exceptions to the required fields in Exhibit A are memorialized in separate side letter agreements, which are attached hereto as Addenda. The attached list of fields does not create any obligation to

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create or manually code fields that are not automatically generated by the processing of the ESI, or that do not exist as part of the original Metadata of the document; provided however, the producing party must populate the SOURCE and CUSTODIAN fields for all produced ESI, as well as paper Documents converted to electronic form as of the time the documents are first produced in this litigation, regardless of whether these fields would be generated during typical processing of such documents. A producing party shall have no obligation to provide FILEPATH information for documents that a receiving party specifically requested and the producing party collected by document type.

c. Any Native Files produced will be accompanied with a

Metadata import file that shall contain (i) the full directory

path and file names of the Native File(s) as contained in the

produced media and (ii) a uniform hash calculation field.

6. Processing Specifications

- a. When processing ESI, GMT should be selected as the time zone. To the extent that a party has already processed ESI using a different time zone, the producing party will note the time zone used in its processing. Parties shall consistently produce all ESI processed using the same time zone.
- b. When processing ESI for review and for production in TIFF format, the producing party will instruct its vendor to force off Auto Date and force on hidden columns or rows, hidden worksheets, speaker notes, track changes, and comments.

1		7. <u>General</u>	
2		a.	The producing party shall use reasonable efforts to avoid
3			producing system and application files.
4		b.	If the producing party redacts all or any portion of a Static
5			Image, redactions not clearly indicated on the Static Image
6			shall be noted in a user-generated field specified in Exhibit
7			"A", which the producing party shall provide in the
8			appropriate Load/Unitization file.
9		c.	The parties may de-duplicate identical ESI vertically, by
10			custodian, or horizontally (i.e., globally). All custodians who
11			were in possession of a de-duplicated Document must be
12			identified in the CUSTODIAN_OTHER Metadata field
13			specified in Exhibit "A", and all BCC recipients whose
14			names would have been included in the BCC Metadata field
15			but are excluded as the result of horizontal/global
16			de-duplication, must be identified in the BCC_OTHER
17			Metadata field specified in Exhibit "A".
18	II.	TERM OF AGREEME	ENT
19		This Agreement shall con	ntinue in full force and effect until further order of the Court or
20		until this litigation is terr	minated by a final judgment.
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22		IT IS SO STIPU	JLATED.
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		Samsung SDI Brasil Ltda.,
12		Shenzen Samsung SDI Co., Ltd., and Tianjin Samsung SDI Co., Ltd.
13		Tungui Sumsung SDI Co., Liu.
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19		America, MT Picture Display Co., Ltd. and Panasonic
		Corporation (f/k/a Matsushita Electric Industrial Co.,
20		Ltd.)
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Case 3:07-cv-05944-JST Document 828 Filed 12/16/10 Page 12 of 25

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6		Tel: (202) 777-4566
7		Fax: (202) 777-4555
8		Attorneys for Defendant Beijing Matsushita Color CRT Company, Ltd.
9		
10		
11	Pursuant to General O	order, § X-B, the filer attests that the concurrence in the filing of
12	this document has been obtain	ned from each of the above signatories.
13		
14	PURSUANT TO STI	PULATION, IT IS SO ORDERED.
15		ES DISTRICE
16	Dated: 12/16/10	
17		Honorable Sal IT IS SO ORDERED United States
18		Judge Samuel Conti
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20		ERN DISTRICT OF
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Exhibit A

Metadata Fields for Production

Note: Metadata Field names may vary depending on the application which generate them. For example, Microsoft Outlook creates different Metadata Field names than does Lotus Notes. Accordingly, the chart below describes the Metadata Fields to be produced in generic, commonly used terms which the Producing Party is to adapt to the specific types of ESI it is producing. Any ambiguity about a Metadata Field is to be discussed with the Receiving Party prior to processing the subject ESI for production.

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	Field	Definition	Doc Type
1	SOURCE	Name of party producing the document	All
2	CUSTODIAN	Name of person from whose files the document is produced	All
3	CUSTODIAN_	Name of person(s), in addition to the	All
	OTHER	Custodian, from whose files the document	
		would have been produced if it had not been	
4	DECDATEC	de-duplicated.	A 11
4	BEGBATES	Beginning Bates Number (production number)	All
5	ENDBATES	End Bates Number (production number)	All
6	PGCOUNT	Number of pages in the document	All
7	FILESIZE	File Size	All
8	APPLICAT	Application used to create document	All
9	FILEPATH	File source path for all electronically collected	All
		documents, which includes location, folder	
		name, file name, and file source extension	
10	NATIVEFILELINK	For documents provided in native format only	All
11	ТЕХТРАТН	File path for OCR or Extracted Text files per paragraph (d) above	All
12	REDACTED	User-generated field that will indicated	All
		redactions made to Static Images, if such	
		redactions are not clearly indicated on the Static	
		Image	
13	FOREIGNLANG	The existence of any foreign (non-English)	All
		language text in a document, as identified	
		during processing or review by the producing	
		party	

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	Field	Definition	Doc Type
14	HANDWRITING	The existence of any handwritten text in a document, as identified during processing or review by the producing party	All
15	MSGID	Hash or SHA Value for Emails	Email
16	FROM	Sender	Email
17	TO	Recipient	Email
18	CC	Additional Recipients	Email
19	BCC	Blind Additional Recipients	Email
20	BCC_OTHER	Blind Additional Recipients who would have shown in the "BCC" field had the originally sent Native email not been de-duplicated.	Email
21	SUBJECT	Subject line of email	Email
22	PARENTBATES	BeginBates number for the parent email of a family (will not be populated for documents that are not part of a family)	Email
23	ATTACHBATES	Bates number from the first page of each attachment	Email
24	BEGATTACH	First Bates number of family range (i.e. Bates number of the first page of the parent email)	Email
25	ENDATTACH	Last Bates number of family range(i.e. Bates number of the last page of the last attachment)	Email
26	ATTACHCOUNT	Number of attachments to an email	Email
27	ATTACHNAME	Name of each individual attachment	Email
28	DATESENT (mm/dd/yyyy)	Date Sent	Email
29	TIMESENT	Time Sent	Email
30	DATERCVD	Date Received	Email
31	TIMERCVD	Time Received	Email
32	CAL START	Calendar/ Appointment start date and time	Email,
	_		Various
33	MSGCLASS	Type of item, e.g. email, calendar item, contact,	Email,
		note, task	Various
34	Attendees/	Calendar/Appointment	Email,
	Participants	Attendees/Participants/Recipients	Various
35	HASHVALUE	MD5 Hash or SHA Value for Edocs	Edocs
36	RECORDTYPE	Descriptive field created by the vendor processing software (e.g. email, edoc, image, attachment)	All
37	TITLE	Title field value extracted from the metadata of the native file.	Edocs
38	AUTHOR	Creator of a document	Edocs

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	Field	Definition	Doc Type
39	DATECRTD	Creation Date	Edocs
	(mm/dd/yyyy)		
40	TIMCRTD	Creation Time	Edocs
41	LASTAUTHOR	Last Saved field contained in the metadata of the	Edocs
		native file	
42	LASTMODD	Last Modified Date	Edocs
	(mm/dd/yyyy)		
43	LASTMODT	Last Modified Time	Edocs
44	FILEEXT	File extension of the native file (e.g., XLS, DOC,	All
		PDF)	
45	MAILSTORE	Original path of mail store	Email,
			various
46	SENSITIVITY	Sensitivity field extracted from native email	Email,
		message other other Outlook item.	various
47	CONVERSATION	Email thread identifier.	Email
	_INDEX		

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21	LINITED STAT	ES DISTRICT COURT	
22			
23	NORTHERN DIS	TRICT OF CALIFORNIA	
24			
25	In Re CATHODE RAY TUBE (CRT) ANTITRUST LITIGATION,	No.: M-07-5944 SC	
26	ANTITION LITIOATION,	MDL NO. 1917	
27	(caption continued)		
28	(capiton commueu)		GAGENIO N. 07 70 1 7

ADDENDUM TO STIPULATED ORDER REGARDING PRODUCTION OF ESI

DB2/22038368.1

This Document Relates to:

ALL ACTIONS.

ADDENDUM TO STIPULATED ORDER REGARDING THE PRODUCTION OF ELECTRONICALLY STORED INFORMATION

WHEREAS, Hitachi, Ltd., Hitachi Displays, Ltd., Hitachi Asia, Ltd., Hitachi America, Ltd., and Hitachi Electronic Devices (USA), Inc. (collectively the "Hitachi Defendants") have informed the Indirect Purchaser Plaintiffs and Direct Purchaser Plaintiffs (jointly "Plaintiffs") that their vendor is incapable of producing four metadata fields identified in Exhibit A to the Stipulated Protective Order regarding the Production of Electronically Stored Information (the "Stipulated Order") at Row 32 (CAL_START), ROW 34 (ATTENDEES/PARTICIPANTS), Row 41 (LAST AUTHOR), and Row 46 (SENSITIVITY);

WHEREAS, the Hitachi Defendants further have informed Plaintiffs that to produce the metadata identified in Exhibit A to the Stipulated Order at Row 47 (CONVERSATION_INDEX), would be overly burdensome and costly;

WHEREAS, the Hitachi Defendants have requested, based on the foregoing, to be excused from producing the five above-mentioned metadata fields; and

WHEREAS, Plaintiffs are willing to enter into this Addendum to the Stipulated Order based on the verbal and written representations made by Counsel to the Hitachi Defendants and the Hitachi Defendants' electronic discovery vendor, Iron Mountain/Stratify.

NOW, THEREFORE,

- 1. Plaintiffs and the Hitachi Defendants agree that as to any document production by any of the Hitachi Defendants that would be subject to the Stipulated Order, the Parties acknowledge and agree that the Hitachi Defendants are not obligated to produce the five following metadata fields:
 - a. CAL START
 - b. ATTENDEES/PARTICIPANTS
 - c. LAST AUTHOR

CASE NO. M-07-5944 SC

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e. CONVERSATION INDEX

2. If, following the entry of this Stipulation, the Hitachi Defendants acquire the capability of processing and producing, without subjecting the Hitachi Defendants to undue burden or costs, one or more of the above-listed metadata fields (*i.e.*, CAL_START, ATTENDEES/PARTICIPANTS, LAST AUTHOR, SENSITIVITY, or CONVERSATION_INDEX), the Hitachi Defendants agree to include such metadata field or fields in all future document productions to Plaintiffs.

This Agreement shall continue in full force and effect until further order of the Special Master or until this litigation is terminated by a final judgment.

IT IS SO STIPULATED.

3 CASE NO. M-07-5944 SC

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Dated: November 8, 2010	/s/ Mario N. Alioto
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Dated: November 8, 2010	/s/ Guido Saveri
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	Diane L. Webb, State Bar No. 197851 Michelle Park Chiu, State Bar No. 248421
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	Attorneys for Defendants Hitachi, Ltd., Hitachi Displays, Ltd., Hitachi Asia, Ltd., Hitachi America,
	Ltd., Hitachi Electronic Displays (USA), Inc.
Pursuant to General Order, § X-B	, the filer attests that the concurrence in the filing of this
document has been obtained from each of	f the above signatories.
ADDENDIM TO STIDI II A'	4 CASE NO. M-07-5944 SC TED ORDER REGARDING PRODUCTION OF ESI
	Dated: November 8, 2010 Dated: November 8, 2010 Pursuant to General Order, § X-B document has been obtained from each o

1	Counsel Listed On Signature Block	
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8	UNITED STATES	S DISTRICT COURT
9	NORTHERN DISTI	RICT OF CALIFORNIA
10) No.: M-07-5944 SC
11	In Re CATHODE RAY TUBE (CRT) ANTITRUST LITIGATION)) MDL NO. 1917
12		_ ′)
13	This Document Relates to:	ADDENDUM TO STIPULATED ORDERREGARDING THE PRODUCTION OF
14	ALL ACTIONS.) ELECTRONICALLY STORED) INFORMATION
15		_)
16		
17	WHEREAS, Panasonic Corporation,	Panasonic Corporation of North America and MT
18	Picture Display Co., Ltd. (the "Panasonic Do	efendants") have informed the Indirect Purchaser
19	Plaintiffs and Direct Purchaser Plaintiffs of pe	otential issues with producing two metadata fields
20	identified in Exhibit A to the Stipulated Order	regarding the Production of Electronically Stored
21	Information (the "Stipulated Order") at Row	32 (CAL_START) and Row 46 (SENSITIVITY);
22	WHEREAS, the Panasonic Defenda	nts have represented that they will continue to
23	undertake reasonable, good-faith efforts to	work with their vendor to extract this metadata
24	while processing the native Electronically S	tored Information and subsequently include that
25	metadata in their productions;	
26	AND WHEREAS, the Panasonic De	fendants, Indirect Purchaser Plaintiffs and Direct
27	Purchaser Plaintiffs are otherwise in mutual	agreement with all other terms and conditions as
28	set forth in the Stipulated Order.	

NOW, THEREFORE, 1. The Panasonic Defendants agree to continue to undertake reasonable, good-faith efforts to resolve the issues with their vendor in extracting the above-identified CAL START and SENSITIVITY metadata fields during processing. 2. The Panasonic Defendants, Indirect Indirect Purchaser Plaintiffs and Direct Purchaser Plaintiffs agree to continue to informally meet and confer regarding this matter. 3. The Panasonic Defendants, Indirect Indirect Purchaser Plaintiffs and Direct Purchaser Plaintiffs agree to submit an amendment to this Addendum setting forth their mutually agreed upon final resolution to this matter within forty-five days following filing of the Stipulated Order. This Agreement shall continue in full force and effect until further order of the Special Master or until this litigation is terminated by a final judgment. IT IS SO STIPULATED.

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1	Dated: October 6, 2010	/s/ Mario N. Alioto
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18	(continued on next page)	
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19	Liu	<i>)</i>
20		
	Pursuant to General Order, § X-B, the filer attests that the concurrence in the filing of	
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22	this document has been obtained from each of the above signatories.	
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