

IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
TEXARKANA DIVISION

MAXELL, LTD.,

Plaintiff,

v.

SAMSUNG ELECTRONICS CO., LTD., and
SAMSUNG ELECTRONICS AMERICA,
INC.,

Defendants.

Case No. 5:25-cv-00052-RWS

JURY TRIAL DEMANDED

P.R. 4-3 JOINT CLAIM CONSTRUCTION AND PREHEARING STATEMENT

Pursuant to P.R. 4-3 and the Docket Control Order (Dkt. No. 44), Plaintiff Maxell, Ltd. (“Plaintiff” or “Maxell”) and Defendants Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc. (collectively referred to herein as “Samsung” or “Defendants”) hereby file this joint claim construction and prehearing statement.

The claim terms listed below occur in U.S. Patent Nos. 7,577,417 (“the ‘417 Patent”); 7,952,645 (“the ‘645 Patent”); 8,471,950 (“the ‘950 Patent”); 10,783,288 (“the ‘288 Patent”); 10,812,646 (“the ‘646 Patent”); 11,026,088 (“the ‘088 Patent”); 11,277,650 (“the ‘650 Patent”); 11,812,091 (“the ‘091 Patent”); and 12,160,681 (“the ‘681 Patent”).

I. HIGH PRIORITY TERMS WHOSE CONSTRUCTION WILL BE MOST SIGNIFICANT TO THE RESOLUTION OF THE CASE

The parties agree that none of the terms identified for construction are claim dispositive.

II. THE CONSTRUCTIONS OF THOSE CLAIM TERMS, PHRASES, OR CLAUSES ON WHICH THE PARTIES AGREE.

The Parties have agreed to the constructions as set forth in the following chart:

No.	TERM	AGREED CONSTRUCTION
1.	“a first operation panel including at least one linear operation buttons” ’091 Patent: claims 1	Plain and ordinary meaning, which is that the first operation panel includes at least one linear operation button and may also include one or more interactive operation buttons
2.	“a second operation panel including at least one of interactive operation buttons” ’091 Patent: claim 1	Plain and ordinary meaning, which is that the second operation panel includes at least one interactive operation button and may also include one or more linear operation buttons
3.	“display at least one of the interactive operation buttons” ’091 Patent: claims 1, 14	Plain and ordinary meaning, which is the display includes at least one of the interactive operation buttons and may also include one or more linear operation buttons
4.	“display at least one of the linear operation buttons” ’091 Patent: claims 1, 14	Plain and ordinary meaning, which is the display includes at least one of the linear operation buttons and may also include one or more interactive operation buttons
5.	“region segmentation unit” ’950 Patent: claims 5, 8	MPF - § 112 ¶ 6 Function: segmenting the effective region in advance Structure: Processor or signal processor implementing Element 38 shown in one or more of Fig. 11 or 13 that implements an algorithm that divides the image into multiple regions for analysis, and equivalents thereof. <i>See e.g.</i> , ’950 Pat. at 2:14-16; 4:53-58; 7:5-44.
6.	“overlap detection unit” ’950 Patent: claims 5, 8	MPF - § 112 ¶ 6 Function: detecting overlap of position information with segmented blocks Structure: Processor or signal processor implementing Element 39 shown in one or more of Fig. 11 or 13 that implements an algorithm that compares pixel position with pixel position information in hold unit and equivalents thereof. <i>See e.g.</i> , ’950 Pat. at 2:14-16; 4:53-58; 7:5-44.
7.	“evaluated value extraction unit” ’950 Patent: claim 1	MPF - § 112 ¶ 6 Function: extracting an evaluated value in accordance with the created region Structure: Processor or signal processor implementing Element 7, 34, or 36 shown in one or

No.	TERM	AGREED CONSTRUCTION
		more of Fig. 1, 6, 7, 10, 11, or 13 that implements an algorithm that performs calculations on pixel values within a defined region, and equivalents thereof. <i>See e.g.</i> , '950 Pat. at 2:14-16; 4:1-10; 4:23-40, 4:53-58; 5:43-56; 6:35-57.
8.	"region creation unit" '950 Patent: claim 1	MPF - § 112 ¶ 6 Function: creating a region by removing pixels with the detected features from an evaluated value extraction region Structure: Processor or signal processor implementing Element 6 shown in one or more of Fig. 1, 6, 7, and 10 that implements an algorithm that manipulates pixel data to define specific regions for evaluation, and equivalents thereof. <i>See e.g.</i> , '950 patent, 2:14-16; 2:60-3:5; 3:60-4:35; 4:53-58; 7:5-15; 7:46-52.
9.	"feature detection unit" '950 Patent: claim 1	MPF - § 112 ¶ 6 Function: detecting a position where features of each pixel of an input picture signal have changed Structure: Processor or signal processor implementing Element 4 shown in one or more of Fig. 1, 6, 7, 10, 11, or 13 that implements an algorithm that analyzes pixel data to detect changes in image features, and equivalents thereof. <i>See e.g.</i> , '950 patent, 2:14-16; 2:22-47; 3:22-59; 4:36-58; 5:10-14, 5:65-6:2, 6:45-48.
10.	"a first display displaying the contents" '650 Patent: claims 1, 4	plain and ordinary meaning, which is: a first display displaying received or generated contents
11.	"sleep state" '646 Patent: claims 1, 2	Plain and ordinary meaning <i>e.g.</i> , a state that the device enters into to reduce battery consumption which is entered when a time of a non-operation passes.

III. EACH PARTY'S PROPOSED CONSTRUCTION TOGETHER WITH AN IDENTIFICATION OF REFERENCES FROM THE SPECIFICATION OR PROSECUTION HISTORY THAT SUPPORT THAT CONSTRUCTION, AND IDENTIFICATION OF ANY EXTRINSIC EVIDENCE KNOWN TO THE PARTY ON WHICH IT INTENDS TO RELY EITHER TO SUPPORT ITS PROPOSED CONSTRUCTION OF THE CLAIM OR TO OPPOSE ANY OTHER PARTY'S PROPOSED CONSTRUCTION OF THE CLAIM, INCLUDING, BUT NOT LIMITED TO, AS PERMITTED BY LAW, DICTIONARY DEFINITIONS, CITATIONS TO LEARNED TREATISES AND PRIOR ART, AND TESTIMONY OF PERCIPIENT AND EXPERT WITNESSES.

The Parties identify the following terms that will be addressed in the *Markman* Briefs:

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
1.	"mobile terminal" '417 Patent: claims 1, 4, and 7	"a cellular phone"	<u>Intrinsic Evidence:</u> '417 Pat. at Abstract; Figs 1, 2, 3, 4, 5, and corresponding description thereof; 1:15-40, 1:56-2:4, 2:12-36, 3:14-27, 4:4-25, 4:41-6:44; claims 1, 4, 7. Non-Final Office Action, December 1, 2008 GB2297661 US6,484,041 US6,995,716 US7,386,332 <u>Extrinsic Evidence:</u> <i>Overview of the GSM System and Protocol Architecture-IEEE</i>	Plain and ordinary meaning, <i>i.e.</i> , "a portable device used for data input and/or output"	<u>Intrinsic Evidence:</u> Title, Abstract, 1:1-2:36; 3:45-4:8; 5:3-45; 6:3-59, Figs. 1-4. Maxell's POPR in IPR2025-01309. <u>Extrinsic Evidence:</u> Hargrave's Communications Dictionary (2001) (definition of "terminal": "A device used for data input and/or output. Terminals can be input only (called send only terminals), output only (called receive only terminals or display terminals), or both. A terminal

¹ Plaintiff reserves rights to rely on any extrinsic and intrinsic evidence identified by Defendant and vice versa

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
			Communication Magazine, April 1993 <i>Global Information Assurance Certification Paper</i>, The GSM Standard, https://www.giac.org/paper/gsec/1499/gsm-standard-an-overview-security/102787		may have some degree of computing power; hence, there are several categories possible. That is, • Dumb terminal – lacks any memory or other components needed for doing computations. All processing for the terminal is done by the host or by the host's front-end processor (FEP). They have limited flexibility for use because they are not addressable. This means they cannot be shared on a bus. • Smart terminal – has some processing capabilities and can be addressed. • Intelligent terminal – has its own processor, can do its own processing, and can run programs. PCs often are used as intelligent terminals."

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
					McGraw-Hill Dictionary of Electrical & Computer Engineering (2003) (definition of "terminal": "a site or location at which data can leave or enter a system.") New IEEE Standard Dictionary of Electrical and Electronics Terms (IEEE Std 100-1992, 1993) (definition of "terminal": "a point in a system or communication network at which data can either enter or leave") JP Patent No. 3179054, which published as JPH1173237, ¶¶[0001]-[0068], Figs. 1-10, March 16, 1999.
2.	"when the mobile terminal is in the [open/closed] condition"	no construction necessary	<u>Intrinsic Evidence:</u> '417 Pat. at Fig 4 and corresponding description thereof; 4:41-43, 4:60-62, 5:35-63, 6:3-6:37, 6:61-7:11; claim 1, 7.	Plain and ordinary meaning, i.e., "in response to a detection that the mobile terminal is in the	<u>Intrinsic Evidence:</u> Abstract, 1:21-39; 2:17-22 & 55-64; 3:7-13 & 28-44; 4:32-40; 5:26-6:59; Figs. 1-4

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
	'417 Patent: claim 1		<u>Extrinsic Evidence:</u> Defendants' Invalidity Contentions Pursuant to Patent Local Rules 3-3 and 3-4 (and exhibits thereto) Samsung's Petition IPR2025-01309 and accompanying Expert Declaration EX1003. Microsoft Computer Dictionary Fifth Edition (2002) at 104 (closed filed: "A file not being used by an application. Compare open file"; close: "to end a computer's connection") close /kləʊz/ <i>verb</i> to shut down access to a file or disk drive CLOSE /kləʊz/ <i>noun</i> (in a programming language) a command that means the program has finished accessing a particular file or device close file /'klaʊs faɪl/ <i>noun</i> to execute a computer instruction to shut down access to a stored file	[unfolded/folded] condition"	Maxell's POPR in IPR2025-01309. <u>Extrinsic Evidence:</u>

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
			Bloomsbury Dictionary of Computing Fifth Edition (2002) at 66 closed 1. Continuous and/or unbroken. For instance, a closed circuit has an uninterrupted path for current. A switch in the closed position is the same as being on. 2. Forming a self-contained unit or system. 3. Blocking, or otherwise obstructing. 4. Not having a space or gap, as opposed to having such a space or gap. 5. Not accessible to all, or not designed to work across different architectures or with varied products. For example, a closed architecture. IEEE Wiley Electrical And Electronics Engineering Dictionary (2004) at 116 open¹ <i>adj.</i> Of, pertaining to, or providing accessibility. For example, an open file is one that can be used because a program has issued an open file command to the operating system. open² <i>vb.</i> To make an object, such as a file, accessible. open file <i>n.</i> A file that can be read from, written to, or both. A program must first open a file before the file's contents can be used, and it must close the file when done. See also open². Microsoft Computer Dictionary Fifth Edition (2002) at 377		

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
			open 1. Discontinuous and/or broken. For instance, an open circuit does not have an uninterrupted path for current. A switch in the open position is the same as being off. Also, to make incomplete. 2. To start or initiate. For instance, to open a program or window, or to establish a communications link. 3. Said of a communications line or circuit which is available for use. Also, to make such a line or circuit available. 4. Not forming a self-contained unit or system. 5. Not blocking or otherwise obstructing. Also, to unblock. 6. Having a space or gap, as opposed to not having such a space or gap. Also, to make a space or gap. 7. A file which is being used or accessed at a given moment. Also, to open such a file. 8. Accessible to all, or designed to work across different architectures or with varied products. For example, an open architecture. Also, to make accessible in this manner. IEEE Wiley Electrical And Electronics Engineering Dictionary (2004) at 530 open /'əʊpən/ <i>adjective</i> 1. called up and prepared before reading or writing actions <i>can occur</i> ○ <i>You cannot access the data unless the file is open.</i> 2. not closed ■ <i>verb</i> to call up and prepare a file before accessing, editing or carrying out other transactions on stored records ○ <i>You cannot access the data unless the file has been opened.</i> Bloomsbury Dictionary of Computing Fifth Edition (2002) at 238-239		
3.	“when a specific	no construction necessary	Intrinsic Evidence: '417 Pat. at Fig 5 and corresponding description thereof; 2:17-22, 2:55-3:2, 4:26-	Plain and ordinary meaning, i.e., “in response to a specific processing being executed”	Intrinsic Evidence: Abstract, 1:21-39; 2:17-22; 2:55-3:2; 3:7-13 & 28-44; 4:32-40; 5:26-6:59; Figs. 1-4

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
	processing is executed" ² '417 Patent: claim 1		4:40, 5:13-25, 5:51-67, 6:10-22, 7:12-18; claim 1. <u>Extrinsic Evidence:</u> Defendants' Invalidity Contentions Pursuant to Patent Local Rules 3-3 and 3-4 (and exhibits thereto) Samsung's Petition IPR2025-01309 and accompanying Expert Declaration EX1003.		Maxell's POPR in IPR2025-01309. <u>Extrinsic Evidence:</u>
4.	"terminal" '088 Patent: claims 1, 14	no construction necessary	<u>Intrinsic Evidence:</u> '088 Pat. at Abstract; Figs 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, and corresponding description thereof; 1:14-34, 1:47-2:11, 2:16-37, 2:41-47, 2:59-61, 3:32-38, 3:44-58, 4:4-11, 4:24-6:24, 6:21-7:22, 8:24-34, 8:52-62, 9:31-53, 9:54-11:34, 11:35-12:5, 12:9-16:47, 16:51-17:29, 17:55-61, 18:13- 27:30; claims 1, 3. Office Action dated October 12, 2018	Plain meaning, which is "a device used for data input and/or output"	<u>Intrinsic Evidence:</u> '088 patent: FIG. 4, 5:9-22, 9:41-10:4, 10:25-28, 11:16-29, 12:29-40, 13:13-23, 14:13-31, 16:4-18, 16:61-17:7, 17:21-28, 19:24-38, 20:44-51, 21:37-46, 22:18-28, 23:44-51, 24:55-63, 25:21-29, 25:36-54, 26:18-28, 27:3-25. <u>Extrinsic Evidence:</u>

² The parties agree to brief Term Nos. 2 and 3 as a single term.

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
			Amendment dated April 1, 2019. US PG Pub No. 2014/0037503 Amendment dated December 2, 2019 Amendment dated November 30, 2020. <u>Extrinsic Evidence:</u> Defendants' Invalidity Contentions Pursuant to Patent Local Rules 3-3 and 3-4 (and exhibits thereto) Samsung's Petition IPR2025-01307 and accompanying Expert Declaration EX1003. remote terminal /rɪˌmɔːt 'tɜːmɪnəl/ <i>noun</i> a computer terminal connected to a distant computer system Dictionary of Computing, Sixth Edition, 2010 at 283. Microsoft-TSSO: Terminal Services System Overview		Hargrave's Communications Dictionary (2001) (definition of "terminal": "A device used for data input and/or output. Terminals can be input only (called send only terminals), output only (called receive only terminals or display terminals), or both. A terminal may have some degree of computing power; hence, there are several categories possible. That is, - Dumb terminal – lacks any memory or other components needed for doing computations. All processing for the terminal is done by the host or by the host's front-end processor (FEP). They have limited flexibility for use because they are not addressable. This means they cannot be shared on a bus. - Smart terminal – has some processing

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			https://news.samsung.com/global/samsung-mobile-payment-service-samsung-pay-available-starting-today-in-the-u-s https://news.samsung.com/global/how-samsung-pay-will-change-habits-and-impact-lifestyle https://www.dice.com/career-advice/run-linux-terminal-android Extrinsic evidence identified by Defendant in the 4-2 Disclosures: Hargrave's Communications Dictionary (2001) (definition of "terminal": "A device used for data input and/or output. Terminals can be input only (called send only terminals), output only (called receive only terminals or display terminals), or both. A terminal may have some degree of computing power; hence, there are several categories possible. That is, • Dumb terminal – lacks any memory or other		capabilities and can be addressed. • Intelligent terminal – has its own processor, can do its own processing, and can run programs. PCs often are used as intelligent terminals." McGraw-Hill Dictionary of Electrical & Computer Engineering (2003) (definition of "terminal": "a site or location at which data can leave or enter a system") New IEEE Standard Dictionary of Electrical and Electronics Terms (IEEE Std 100-1992, 1993) (definition of "terminal": "a point in a system or communication network at which data can either enter or leave")

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			components needed for doing computations. All processing for the terminal is done by the host or by the host's front-end processor (FEP). They have limited flexibility for use because they are not addressable. This means they cannot be shared on a bus. • Smart terminal – has some processing capabilities and can be addressed. • Intelligent terminal – has its own processor, can do its own processing, and can run programs. PCs often are used as intelligent terminals.” McGraw-Hill Dictionary of Electrical & Computer Engineering (2003) (definition of “terminal”: “a site or location at which data can leave or enter a system.”)		

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			New IEEE Standard Dictionary of Electrical and Electronics Terms (IEEE Std 100-1992, 1993) (definition of “terminal”: “a point in a system or communication network at which data can either enter or leave”)		
5.	“terminal” ³ ,650 Patent: claims 1, 4	no construction necessary	<u>Intrinsic Evidence:</u> ,650 Pat. at Abstract; Fig 1, and corresponding description thereof; 1:24-47, 1:61-2:23, 2:55-56, 3:17-24, 4:36-5:5, 9:8-15, 13:29-38, 13:54-63; claims 1, 4; Office Action dated September 24, 2020. US PG Pub No 2005/0155078 Amendment dated October 6, 2021 <u>Extrinsic Evidence:</u> Defendants’ Invalidity Contentions Pursuant to Patent Local Rules 3-3 and 3-4 (and exhibits thereto)	Plain meaning, which is “a device used for data input and/or output”	<u>Intrinsic Evidence:</u> FIGS. 1-2, 5, 1:61-67, 2:8-22, 2:57-3:24, 3:48-4:18, 5:13-11:3, 12:12-64 Amendment filed January 21, 2021, at 2 (replacing “main equipment” with “main terminal” and “subsidiary equipment” with “subsidiary terminals”). <u>Extrinsic Evidence:</u> Hargrave’s Communications Dictionary (2001) (definition of “terminal”: “A device used for data input and/or output. Terminals can be input only (called send only terminals),

³ The parties agree to brief Term Nos. 4 and 5 as a single term.

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
			Samsung's Petition IPR2025-01308 and accompanying Expert Declaration EX1002. remote terminal /rɪˈmɔt 'tɜːml noun a computer terminal connected to a computer system Dictionary of Computing, Sixth Edition, 2010 at 283. https://www.zte.com.cn/global/about/magazine/zte-communications/2008/2/en_5/162477.html Extrinsic evidence identified by Defendant in the 4-2 Disclosures: Hargrave's Communications Dictionary (2001) (definition of "terminal": "A device used for data input and/or output. Terminals can be input only (called send only terminals), output only (called receive only terminals or display terminals), or both. A terminal may have some degree of computing power; hence, there are several categories possible. That is,		output only (called receive only terminals or display terminals), or both. A terminal may have some degree of computing power; hence, there are several categories possible. That is, • Dumb terminal – lacks any memory or other components needed for doing computations. All processing for the terminal is done by the host or by the host's front-end processor (FEP). They have limited flexibility for use because they are not addressable. This means they cannot be shared on a bus. • Smart terminal – has some processing capabilities and can be addressed. • Intelligent terminal – has its own processor, can do its own processing, and can

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			- Dumb terminal – lacks any memory or other components needed for doing computations. All processing for the terminal is done by the host or by the host's front-end processor (FEP). They have limited flexibility for use because they are not addressable. This means they cannot be shared on a bus. - Smart terminal – has some processing capabilities and can be addressed. - Intelligent terminal – has its own processor, can do its own processing, and can run programs. PCs often are used as intelligent terminals. McGraw-Hill Dictionary of Electrical & Computer Engineering (2003) (definition of "terminal": "a site or location at		run programs. PCs often are used as intelligent terminals." McGraw-Hill Dictionary of Electrical & Computer Engineering (2003) (definition of "terminal": "a site or location at which data can leave or enter a system"; definition of "equipment": "one or more assemblies capable of performing a complete function") New IEEE Standard Dictionary of Electrical and Electronics Terms (IEEE Std 100-1992, 1993) (definition of "terminal": "a point in a system or communication network at which data can either enter or leave"; definition of "equipment": "a general term including materials, fittings, devices, appliances, fixtures, apparatus, machines, etc.")

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			which data can leave or enter a system.”) New IEEE Standard Dictionary of Electrical and Electronics Terms (IEEE Std 100-1992, 1993) (definition of “terminal”: “a point in a system or communication network at which data can either enter or leave”)		
6.	“by increasing the other of the first number and the second number by an arbitrary number” ’681 Patent: claim 1	Plain and ordinary meaning <i>e.g.</i>, generating one of the first number or the second number by increasing one of the second number or the first number by an arbitrary number	<u>Intrinsic Evidence:</u> ’681 Pat. at Fig. 2, Fig. 3, Fig. 4, Fig. 5, and corresponding description thereof including at least 4:4-25, 7:40-48, 7:64-8:9, 8:23-56, 9:25-54, 9:22-10:14, 10:15-25; claim 1. Office Action dated October 3, 2023 US PG Pub 2006/0095638 US 7,162,499 US PG Pub 2006/0129370 Reply to Office Action dated October 3, 2023. <u>Extrinsic Evidence:</u> Defendants’ Invalidation Contentions Pursuant to Patent	Plain and ordinary meaning, i.e., “by adding an arbitrary number to the other of the first number and the second number”	<u>Intrinsic Evidence:</u> Abstract; 2:51-3:14; 4:4-36; 5:54-10:33; Figs. 2-5. File History: Office Action Response filed April 3, 2024. Maxell’s POPR in IPR2025-01310, including but not limited to pp. 10-13, 29-31, 39-40, 45-47 and 59-61. <u>Extrinsic Evidence:</u>

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
			Local Rules 3-3 and 3-4 (and exhibits thereto) Samsung's Petition IPR2025-01308 and accompanying Expert Declaration EX1002.		
7.	“whether pattern portions other than contents are contained in the video signal input to the input unit.” ’645 Patent: claim 1, 3	“pattern portions” and “contents” are detected in the same frame, in adjacent frames, and/or in frames with a relationship to each other.	<u>Intrinsic Evidence:</u> ’645 Pat. at Abstract; Figs 1, 2, 3, 27, 29, 36A, 36B, 45A, 45B, and corresponding description thereof; 1:41-67, 2:66-3:8, 6:23-45, 6:67-7:3, 8:7-17, 9:35-37, 16:7-33, 16:57-17:25, 18:14-66, 19:11-20:10, 20:16-25, 22:22-36, 22:37-23:3, 24:5-40; claims 1, 3. <u>Extrinsic Evidence:</u> Defendants’ Invalidity Contentions Pursuant to Patent Local Rules 3-3 and 3-4 (and exhibits thereto)	Plain and ordinary meaning.	<u>Intrinsic Evidence:</u> Abstract, 1:15-27, 1:31-67, 4:26-35, 5:4-6:3, 6:4-31, 6:46-56, 6:61-7:16, 7:59-8:6, 8:23-37, 10:60-11:59, 12:39-59, 14:3-29, 16:5-20:10, 20:32-21:31, 23:17-57. Figs. 3, 6, 8, 10, 14-16, 23-24, 35-36, 38-39, 45-46. <u>Extrinsic Evidence:</u> Maxell’s August 12 Infringement Contentions cover pleading at, <i>e.g.</i>, 57-64. Maxell’s August 12 Infringement Contentions, Appendix 6 at, <i>e.g.</i>, 38-69, 238-269.

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
			Samsung's Petition IPR2025-01312 and accompanying Expert Declaration EX1003. IPR2025-01312, Paper No. 13		IPR2025-01312, Paper 13 (Maxell's Preliminary Response). Chambers Dictionary of Science and Technology (IPR2025-01312 Ex. 1007) (defining "signal").
8.	"when the pattern portions are contained/not contained/not the no-picture areas" '645 Patent: claim 1, 3, 5	Plain and ordinary meaning of "when" <i>e.g.</i>, based on or upon determination that the pattern portions/no-picture areas are contained/not-contained	<u>Intrinsic Evidence:</u> '645 Pat. at Abstract; Figs 36A, 36B, 39, 44, 45A-C, 46, and corresponding description thereof; 1:41-63, 6:44-45, 8:11-12, 6:67-7:3, 9:35-37, 16:1-31, 17:11-16, 18:20-22, 19:26-30, 20:5-9, 20:17-22, 20:22-25, 20:56-64, 21:1-2, 21:54-57, 22:13-17, 22:18-23:3, 23:17-19, 23:40-67, 24:1-3, 24:14-18; claims 1, 3, 5. <u>Extrinsic Evidence:</u> Defendants' Invalidity Contentions Pursuant to Patent Local Rules 3-3 and 3-4 (and exhibits thereto)	Samsung adopts its construction from the '645 patent IPR (IPR2025-01312): Samsung "construes 'when' in these limitations to be broader than 'whenever,' and to be satisfied by <i>certain instances</i> in which 'the pattern portions are contained,' 'the pattern portions are not contained,' and 'the pattern portions are not the no-picture areas,' respectively."	Abstract, 1:15-27, 1:31-67, 4:26-35, 5:4-6:3, 6:4-31, 6:46-56, 6:61-7:16, 7:59-8:6, 8:23-37, 10:60-11:59, 12:39-59, 14:3-29, 16:5-20:10, 20:32-21:31, 23:17-57. Figs. 3, 6, 8, 10, 14-16, 23-24, 35-36, 38-39, 45-46. <u>Extrinsic Evidence:</u> Maxell's August 12 Infringement Contentions cover pleading at, <i>e.g.</i>, 57-64. Maxell's August 12 Infringement Contentions, Appendix 6 at, <i>e.g.</i>, 107-144, 144-181, 338-357, 474-504, 504-523.

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
			Samsung's Petition IPR2025-01312 and accompanying Expert Declaration EX1003. IPR2025-01312, Paper No. 13		IPR2025-01312, Paper 13 (Maxell's Preliminary Response).
9.	“a result of detection output from the characteristic point detector” ’645 Patent: claim 3	Plain and ordinary meaning <i>e.g.</i>, result is output from the characteristic point detector	<u>Intrinsic Evidence:</u> ’645 Pat. at Abstract; Figs 1, 3, and corresponding description thereof; 2:14-15, 2:18-19, 2:21, 2:25-26, 5:41-54, 6:61-64, 6:64-7:5, 7:12-16, 7:59-62, 8:1-6, 8:23-29, 8:32-37, 8:59-62, 20:52-64, 22:5-14; claim 3. <u>Extrinsic Evidence:</u> Defendants’ Invalidity Contentions Pursuant to Patent Local Rules 3-3 and 3-4 (and exhibits thereto) Samsung’s Petition IPR2025-01312 and accompanying Expert Declaration EX1003. IPR2025-01312, Paper No. 13	Samsung adopts its construction from the ’645 patent IPR (IPR2025-01312): “[t]he plain meaning of this limitation includes a ‘result’ that is not ‘from the characteristic point detector’ but still is a result of ‘detection output’ that is from the characteristic point detector.”	<u>Intrinsic Evidence:</u> Abstract, 1:15-27, 1:31-67, 4:26-35, 5:4-6:3, 6:4-31, 6:46-56, 6:61-7:51, 7:59-8:17, 8:23-49, 8:55-10:8, 10:60-11:59, 12:39-59, 14:3-29, 16:5-20:10, 20:32-21:31, 22:22-36, 23:17-57. Figs. 3, 4-6, 8-12, 14-16, 23-24, 35-36, 38-39, 45-46. <u>Extrinsic Evidence:</u> Maxell’s August 12 Infringement Contentions cover pleading at, <i>e.g.</i>, 57-64. Maxell’s August 12 Infringement Contentions, Appendix 6 at, <i>e.g.</i>, 291-338.

NO.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
10.	“upon receiving . . . the command from the first communication terminal, the communication device is configured to control how to display the data received from the second communication terminal” ’088 Patent: claim 1	no construction necessary	<u>Intrinsic Evidence:</u> ’088 Pat. at Figs 1, 3, 4, and corresponding description thereof; 2:17-37, 2:56-58, 2:59-61, 3:46-53, 4:26-29, 4:33-37, 4:45-48, 8:24-27, 8:56-62, 9:31-40, 9:41-43, 9:54-57, 11:36-54, 12:9-24; claim 1; Office Action dated October 12, 2018 Amendment dated April 1, 2019. US PG Pub No. 2014/0037503 Amendment dated December 2, 2019 Amendment dated November 30, 2020. Final Office Action dated 11/30/20. <u>Extrinsic Evidence:</u> Defendants’ Invalidity Contentions Pursuant to Patent	Plain and ordinary meaning, which is that the method or manner used by the communication device to display data received from the second communication terminal becomes configured after, and in response to, the communication device receiving from the first communication terminal the command to remotely control how to display data received from the second communication terminal on the	IPR2025-01312, Paper 13 (Maxell’s Preliminary Response). <u>Intrinsic Evidence:</u> ’088 patent: 9:41-53. ’088 patent file history: November 30, 2020, Reply to Final Office Action mailed August 4, 2020 at, <i>e.g.</i>, pages 13-16. <u>Extrinsic Evidence:</u>

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
			Local Rules 3-3 and 3-4 (and exhibits thereto) Samsung's Petition IPR2025-01307 and accompanying Expert Declaration EX1003.	communication device.	
11.	“a [second/third] display displaying the content” ’650 Patent: claims 1, 4	no construction necessary	<u>Intrinsic Evidence:</u> ’650 Pat. at Figs 1, 2, 4, and corresponding description thereof; 1:37-41, 2:57-60, 2:64-67, 3:4-20, 3:63-4:9, 4:19-29, 4:36-40, 4:49-5:2, 5:15-17, 5:18-19, 6:18-22, 8:18-24, 8:29-32, 8:39-44, 9:46-50, 9:59-65, 10:11-18, 10:19-21, 11:8-10, 11:18-22, 11:23-27, 11:43-47, 11:53-56, 12:25-32, 12:35-39, 12:40-59, 13:15-19, 13:39-43, 13:47-53, 14:23-26, 14:32-37, 14:52-54, 14:62-66, 15:4-9; claims 1, 4. Office Action dated September 24, 2020. US PG Pub No 2005/0155078 Amendment dated October 6, 2021.	plain and ordinary meaning, which is: displaying a content on the second/third display, where the content displayed on the second/third display (i) need not be displayed concurrently with any content on the first display or (ii) need not be related to content displayed concurrently on any other subsidiary terminal	<u>Intrinsic Evidence:</u> Claim 1, Claim 4, 1:30-36, 3:11-16, 3:25-47, 5:51-56. Second Preliminary Amendment filed July 20, 2020, at 2-3 (replacing “subsidiary content” with “content”). Amendment Filed October 6, 2021, at 2 (replacing “content” with “contents”). U.S. Patent No. 8,544,049, Claims 1 and 11 (reciting “main content” and “subsidiary content”). <u>Extrinsic Evidence:</u>

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
			<u>Extrinsic Evidence:</u> Defendants' Invalidity Contentions Pursuant to Patent Local Rules 3-3 and 3-4 (and exhibits thereto) Samsung's Petition IPR2025-01308 and accompanying Expert Declaration EX1002.		
12.	“command to remotely control a display operation” ’088 Patent: claims 1, 14	no construction necessary	<u>Intrinsic Evidence:</u> ’088 Pat. at Figs 2, 3, and corresponding description thereof; 9:20-23, 9:41-44, 9:46-52; claims 1, 14; Office Action dated October 12, 2018 Amendment dated April 1, 2019. US PG Pub No. 2014/0037503 Amendment dated December 2, 2019 Amendment dated November 30, 2020. <u>Extrinsic Evidence:</u>	Plain and ordinary meaning, which is a “command that remotely controls a method or manner in which data is displayed”	<u>Intrinsic Evidence:</u> ’088 patent: 9:41-53. ’088 patent file history: November 30, 2020, Reply to Final Office Action mailed August 4, 2020 at, <i>e.g.</i>, pages 13-16. <u>Extrinsic Evidence:</u> Merriam Webster Dictionary (https://web.archive.org/web/20120112000413/https://www.merriam-webster.com/dictionary/operati)

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			Defendants' Invalidity Contentions Pursuant to Patent Local Rules 3-3 and 3-4 (and exhibits thereto) Samsung's Petition IPR2025-01307 and accompanying Expert Declaration EX1003. command set See command set. In computer telephony, a command set is a collection of special software instructions that do special jobs. These software instructions are often called function calls. For example, the command <i>M_Make_Call</i> (plus parameters) tells Northern's Norstar phone system to have telephone set number 21 dial a phone number. Northern's Norstar and other open phone systems (those that can be commanded by an external computer which you and I can program) all have their own command sets. Each command set is made up of function calls with funny words like <i>M_Make_Call</i>. Typically those function calls work in C, a common software language. A function call will reach into the specialized driver that controls the phone system (an exact analogy is the driver that drives a laser printer) and get the phone system to do something. A programmer must use these function calls if he/she wants to control the phone system from software. Exactly how <i>M_Make_Call</i> works is typically not revealed to the programmer. That keeps the manufacturer's technology proprietary and secret. It also saves the programmer the time and expense of writing the driver. Newton's Telecom Dictionary, 28th Expanded and Updated Edition, 2014 at 325 command /kə'mɑ:nd/ <i>noun</i> 1. an electrical pulse or signal that will start or stop a process 2. a word or phrase which is recognised by a computer system and starts or terminates an action <i>○ interrupt command</i>		on (definition of "operation": "a method or manner of functioning") IPR2025-01307, Paper 10, at 29. Maxell's October 20 Amended Infringement Contentions, Appendix 1, at 119-120.

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
			Dictionary of Computing, Sixth Edition, 2010 at 69. remote /rɪ'məʊt/ <i>adjective</i> used to describe communications with a computer at a distance from the systems centre O <i>Users can print reports on remote printers.</i> Dictionary of Computing, Sixth Edition, 2010 at 283. command (n)~ An instruction to a computer program that, when issued by the user, causes an action to be carried out. Commands are usually either typed at the keyboard or chosen from a menu. command (n)~ An instruction sent via mobile phone to perform a certain action on Windows Live, such as updating a status message, or to retrieve information, such as a list of the day's events). Dictionary of Computer and Internet Terms, Vol. 1, 2016 at 108. remote (adj)~ Not in the immediate vicinity, as a computer or other device located in another place (room, building, or city) and accessible through some type of cable or communications link. Dictionary of Computer and Internet Terms, Vol. 1, 2016 at 418. https://developer.samsung.com/galaxy-accessory/overview.html		

No.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
13.	“command to control how to display the data”⁴ ’088 Patent: claim 14	no construction necessary	https://www.samsung.com/ie/apps/smarthings-find/ Intrinsic Evidence: ’088 Pat. at Figs 2, 3, and corresponding description thereof; 5:9-14, 5:19-22, 8:4-7, 8:9-14, 9:31-39, 13:20-23, 25:39-45; Office Action dated October 12, 2018 Amendment dated April 1, 2019. US PG Pub No. 2014/0037503 Amendment dated December 2, 2019 Amendment dated November 30, 2020. Extrinsic Evidence: Defendants’ Invalidity Contentions Pursuant to Patent Local Rules 3-3 and 3-4 (and exhibits thereto)	Plain and ordinary meaning, which is a “command that remotely controls a method or manner in which data is displayed”	Intrinsic Evidence: ’088 patent: 9:41-53. ’088 patent file history: November 30, 2020, Reply to Final Office Action mailed August 4, 2020 at, e.g., pages 13-16. Extrinsic Evidence: Merriam Webster Dictionary (https://web.archive.org/web/20120112000413/https://www.merriam-webster.com/dictionary/operation) (definition of “operation”: “a method or manner of functioning”) IPR2025-01307, Paper 10, at 29.

⁴ The parties agree to brief Term Nos. 12 and 13 as a single term.

NO.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	PLAINTIFF'S EVIDENCE ¹	DEFENDANTS' PROPOSED CONSTRUCTION	DEFENDANTS' EVIDENCE
			Samsung's Petition IPR2025-01307 and accompanying Expert Declaration EX1003.		Maxell's October 20 Amended Infringement Contentions, Appendix 1, at 119-120

The Parties identify the following terms that are not among the ten that the Parties will address in the *Markman* Briefs but that are still in dispute between the Parties:

NO.	TERM	PLAINTIFF'S PROPOSED CONSTRUCTION	DEFENDANTS' PROPOSED CONSTRUCTION
1.	"access point device" '088 patent: claims 1, 14	Plain and ordinary meaning <i>e.g.</i> , a device that connects a computer to a network, such as the internet or a local area network (LAN)	Plain meaning, which is "a network device that allows wireless devices to connect to and communicate with a wired computer network"
2.	"unlock operation / unlock" '228 patent: claim 1	Plain and ordinary meaning <i>e.g.</i> , an operation to transition from lock to unlock state/unlock	Samsung adopts its construction from the '228 patent IPR (IPR2025-01313): "[t]he plain meaning of 'unlock[ing]' a device includes allowing the user to access additional functionality on the device."

IV. THE ANTICIPATED LENGTH OF TIME NECESSARY FOR THE CLAIM CONSTRUCTION HEARING

Maxell and Samsung anticipate 5 hours as the total length of time necessary for the claim construction hearing.

V. WHETHER ANY PARTY PROPOSES TO CALL ONE OR MORE WITNESSES, INCLUDING EXPERTS, AT THE CLAIM CONSTRUCTION HEARING, THE IDENTITY OF EACH SUCH WITNESS, AND FOR EACH EXPERT, A SUMMARY OF EACH OPINION TO BE OFFERED IN SUFFICIENT DETAIL TO PERMIT A MEANINGFUL DEPOSITION OF THAT EXPERT

At this time, Maxell and Samsung do not expect to call any witnesses.

VI. A LIST OF ANY OTHER ISSUES WHICH MIGHT APPROPRIATELY BE TAKEN UP AT A PREHEARING CONFERENCE PRIOR TO THE CLAIM CONSTRUCTION HEARING, AND PROPOSED DATES, IF NOT PREVIOUSLY SET, FOR ANY SUCH PREHEARING CONFERENCE

No issues at this time.

Dated: January 28, 2026

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CERTIFICATE OF SERVICE

I hereby certify that all counsel of record who are deemed to have consented to electronic service are being served this 28th day of January, 2026, with a copy of this document via the Court's CM/ECF system.

/s/ Jamie B. Beaber
Jamie B. Beaber