

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

MAXELL, LTD.,

Plaintiff,

v.

CORETRONIC CORP., OPTOMA CORP.,

Defendants.

Civil Action No. 5:24-CV-00088-RWS-JBB

JURY TRIAL DEMANDED

P.R. 4-5(d) JOINT CLAIM CONSTRUCTION CHART

In accordance with P.R. 4-5(d) and the First Amended Docket Control Order (Dkt. 65), Plaintiff Maxell, Ltd. and Defendants Coretronic Corp. and Optoma Corp. (together, “Defendants”) hereby provide this joint claim construction chart listing the disputed terms (Nos. 1-8) to be addressed at the *Markman* Hearing scheduled for May 6, 2025. The chart also includes the terms (Nos. 9-11) with constructions upon which the parties have agreed.

The claim terms listed below appear in U.S. Patent Nos. 7,159,988 (“the ’988 Patent”); 8,593,580 (the “’580 Patent”); 9,547,226 (the “’226 Patent”); and 9,565,388 (the “’388 Patent”).¹

¹ The Parties have not proposed any terms for construction from U.S. Patent Nos. 7,850,313 (the “’313 Patent”); 9,322,530 (the “’530 Patent”); and 9,900,569 (the “’569 Patent”).

NO.	TERM / PATENT / CLAIM(S)	MAXELL'S PROPOSED CONSTRUCTION	DEFENDANTS' PROPOSED CONSTRUCTION	COURT'S CONSTRUCTION
1.	“projection optical unit” “a first projection optical unit” “a second projection optical unit” (’988 Patent, cls. 1, 7, 8)	Plain and ordinary meaning, for example, an assembly of lenses, mirrors, and/or other optical elements to form an enlarged image	Governed by pre-AIA 35 U.S.C. § 112, ¶ 6 <u>Function</u>: to form an enlarged image <u>Structure</u>: a lens group having a positive refractive power	
2.	“light separation optic system” (’580 Patent, cls. 1, 10, 32)	Plain and ordinary meaning, for example, a collection of one or more optic units configured to separate light into different colors	Governed by pre-AIA 35 U.S.C. § 112, ¶ 6 <u>Function</u>: to separate white light from a light source configured to emit white lights including a light emitting from a fluorescent substance into blue-color light, green-color light, and red-color light <u>Structure</u>: two (2) dichroic mirrors and one (1) reflection mirror statically oriented and positioned relative to each other as shown in Fig. 1, wherein dichroic mirror 31 reflects the blue light and transmits the green light and the red light, dichroic mirror 32 receives the separated light from dichroic mirror 31 and reflects the green light and transmits the red light, and reflection mirror 33 reflects the blue light reflected by dichroic mirror 31	

NO.	TERM / PATENT / CLAIM(S)	MAXELL'S PROPOSED CONSTRUCTION	DEFENDANTS' PROPOSED CONSTRUCTION	COURT'S CONSTRUCTION
3.	"light modulation means" ('580 Patent, cls. 1, 9, 10, 18, 32)	Governed by pre-AIA 35 U.S.C. § 112, ¶ 6 <u>Function</u> : making light-modulation on a respective one of the lights of the R, G and B separated, depending on a video signal <u>Structure</u> : image display element such as a liquid crystal panel or a digital mirror device, and equivalents thereof	Governed by pre-AIA 35 U.S.C. § 112, ¶ 6 <u>Function</u> : to change the intensity of each of the separated blue-color light, green-color light, and red-color light <u>Structure</u> : a set of three panels, one for each separated color light, each of which is a transmission-type liquid crystal panel, a reflection-type liquid crystal panel, or a digital mirror device made by aligning plural number of micro-mirrors	
4.	"light flux capturing means" ('580 Patent, cls. 7, 37)	Governed by pre-AIA 35 U.S.C. § 112, ¶ 6 <u>Function</u> : capturing light flux <u>Structure</u> : a lens, a mirror, or a combination of lenses and/or mirrors that captures at least some portion of light, and equivalents thereof	Governed by pre-AIA 35 U.S.C. § 112, ¶ 6 <u>Function</u> : to direct white light emitted from the light source <u>Structure</u> : a reflection surface, such as a mirror, having a focus point	

NO.	TERM / PATENT / CLAIM(S)	MAXELL'S PROPOSED CONSTRUCTION	DEFENDANTS' PROPOSED CONSTRUCTION	COURT'S CONSTRUCTION
5.	“an emission side of the excitation light relative to the fluorescent material” (’226 Patent, cl. 8)	Not indefinite. Plain and ordinary meaning, for example, an excitation light’s exit side of the fluorescent material that faces away from the excitation light source	If the Court determines that this term is amenable to construction, then Defendants propose: The surface of the fluorescent material on the side facing the excitation light source.	
6.	“the optical member has a curvature that is set such that a light-condensing position of the excitation light is positioned on an emission side of the excitation light relative to the fluorescent material” (’226 Patent, cl. 8)	Plain and ordinary meaning, for example, the optical member has a curvature that causes a light-condensing position of the excitation light to be positioned on an excitation light’s exit side of the fluorescent material that faces away from the excitation light source	If the Court determines that this term is amenable to construction, then Defendants propose that “a light-condensing position” be construed to mean: An illumination region formed by converging light rays	
7.	“Retinex processing unit” (’388 Patent, cls. 4, 6, 16, 18)	Not indefinite. Plain and ordinary meaning, for example, one or more processors that are capable of executing a Retinex process or one or more processors that are capable of executing a processing to control definition of a video and/or to control visibility of a video	Governed by 35 U.S.C. § 112(f) <u>Function</u>: perform a Retinex process <u>Structure</u>: None disclosed	

NO.	TERM / PATENT / CLAIM(S)	MAXELL'S PROPOSED CONSTRUCTION	DEFENDANTS' PROPOSED CONSTRUCTION	COURT'S CONSTRUCTION
8.	"video composing unit" ('388 Patent, cls. 4, 6, 10, 16, 18, 22)	Not indefinite. Plain and ordinary meaning, for example, a portion of one or more processors that composes a video	Governed by 35 U.S.C. § 112(f) <u>Function</u> : compose a video from a video processed by the first Retinex processing unit and a video processed by the second Retinex processing unit in accordance with a feature of the video input from the video input unit <u>Structure</u> : None disclosed	
9.	"almost" ('580 Patent, cl. 11)	[AGREED]	[AGREED]	Plain and ordinary meaning
10.	"separation mirror" ('580 Patent, cls. 10, 11)	[AGREED]	[AGREED]	Plain and ordinary meaning, for example, a part designed to pass and/or reflect different characteristics of lights in a projector
11.	"a front side of the fluorescent material" ('226 Patent, cl. 10)	[AGREED]	[AGREED]	The surface of the fluorescent material on the side facing the excitation light source

Date: April 22, 2025

By: /s/ Bryan Nese

Jamie B. Beaber
Kfir B. Levy
Bryan Nese
Alan M. Grimaldi
James A. Fussell, III
Don H. Min
Baldine B. Paul
Tariq Javed
Young Kyoung (Claire) Kim
Séké G. Godo
So Ra Ko
MAYER BROWN LLP
1999 K Street, NW
Washington, DC 20006
Telephone: (202) 263-3000
Facsimile: (202) 263-3300
jbeaber@mayerbrown.com
klevy@mayerbrown.com
bnese@mayerbrown.com
agrimaldi@mayerbrown.com
jfussell@mayerbrown.com
dmin@mayerbrown.com
tjaved@mayerbrown.com
clairekim@mayerbrown.com
sgodo@mayerbrown.com
sko@mayerbrown.com

Geoffrey P. Culbertson
Kelly B. Tidwell

Patton, Tidwell & Culbertson, L.L.P.
2800 Texas Boulevard
Post Office Box: 5398
Texarkana, Texas 75503
Telephone: (903) 792-7080
Facsimile: (903) 792-8233
kbt@texarkanalaw.com
gpc@texarkanalaw.com

Counsel for Plaintiff Maxell, Ltd.

By: /s/ Donald R. McPhail

Donald R. McPhail (admitted)
MERCHANT & GOULD PC 1900
Duke Street
Alexandria, VA 22314
Telephone: 703-518-4516
Facsimile: 612-332-9081
dmcphail@merchantgould.com

Eric R. Chad (admitted *pro hac vice*)
MERCHANT & GOULD P.C.
150 South Fifth Street, Suite 2200
Telephone: 612-336-4724
Facsimile: 612-332-9081
echad@merchantgould.com

Andy Tindel
Texas Bar No. 20054500
MT2 LAW GROUP
MANN | TINDEL | THOMPSON
112 E. Line Street, Suite 304
Tyler, Texas 75702
Telephone: 903.596.0900
Facsimile: 903569.0909
Email: atindel@andytindel.com

*Counsel for Defendants
Coretronic Corporation and
Optoma Corporation*

CERTIFICATE OF SERVICE

I hereby certify that all counsel of record who are deemed to have consented to electronic service are being served this 22nd day of April 2025, with a copy of this document via the Court's CM/ECF system.

/s/ Bryan Nese
Bryan Nese