

# DATA FORMAT

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## LENS

### Table of Contents:

*1. Definition of TAG and fields in CSV file\_FORMAT:1..... 2*

*2. Sample (The portion following a common header)\_FORMAT:1..... 3*

*3. Definition of TAG and fields in CSV file\_FORMAT:2..... 4*

*4. Sample (The portion following a common header)\_FORMAT:2..... 7*

## DATA FORMAT : Examination data part LEMS (version:1-02-00)

### 1. Definition of TAG and fields in CSV file\_FORMAT:1

Chart 1 List of TAG name

Tag Name	Explanation of the tag	Field following a tag							
		Number of appearance	Number of fields	Name of fields	Type of fields	Character type	The maximum number of the characters	Detail	Unit
[POWER_R]	S, C, A values of Right lens	-	3	SPH	Num	ASCII	6	Signed decimal, (-99.99 to +99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position..	D
				CYL	Num	ASCII	6	Signed decimal, (-99.99 to +99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	D
				AXIS	Num	ASCII	3	Unsigned decimal, (0 to 999). When 2 <sup>nd</sup> and 3 <sup>rd</sup> digit is 0, blank is filled up by changing field position.	deg.
[ADD_R]	ADD power of Right lens	-	2	ADD1	Num	ASCII	4	Unsigned decimal, (0.00 to 9.99)	D
				ADD2	Num	ASCII	4	Unsigned decimal, (0.00 to 9.99)	D
[PRISM_R]	Prism value of Right lens	-	2	PX	Num	ASCII	6	Signed decimal, “+” is displayed as “O (out)”. “-“is displayed as “I (in)”. (-99.99 to 99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	Δ
				PY	Num	ASCII	6	Signed decimal “+” is displayed as “U (up)”. “-“is displayed as “D (down)”. (-99.99 to 99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	Δ
[PD_R]	Right PD	-	1	RPD	Num	ASCII	4	Unsigned decimal, (0.0 to 99.9). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position	mm
[OC_L_R]	L value of Right	-	1	L	Num	ASCII	2	Unsigned decimal, (0 to 99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	mm
[POWER_L]	S, C, A values of Left lens	-	3	SPH	Num	ASCII	6	Signed decimal, (-99.99 to +99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	D
				CYL	Num	ASCII	6	Signed decimal, (-99.99 to +99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	D
				AXIS	Num	ASCII	3	Unsigned decimal, (0 to 999). When 2 <sup>nd</sup> and 3 <sup>rd</sup> digit is 0, blank is filled up by changing field position.	deg.
[ADD_L]	ADD power of Left lens	-	2	ADD1	Num	ASCII	4	Unsigned decimal, (0.00 to 9.99).	D
				ADD2	Num	ASCII	4	Unsigned decimal, (0.00 to 9.99).	D
[PRISM_L]	Prism value of Left lens	-	2	PX	Num	ASCII	6	Signed decimal “+” is displayed as “O (out)”. “-“is displayed as “I (in)”. (-99.99 to 99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	Δ
				PY	Num	ASCII	6	Signed decimal “+” is displayed as “U (up)”. “-“is displayed as “D (down)”. (-99.99 to 99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	Δ
[PD_L]	Left PD	-	1	RPD	Num	ASCII	4	Unsigned decimal, (0.0 to 99.9). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position	mm
[OC_L_L]	L value of Left	-	1	L	Num	ASCII	2	Unsigned decimal, (0 to 99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	mm

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### 2. Sample (The portion following a common header)\_FORMAT:1

#### 2-1.Both eye measurement

Sample	Explanation
[FM_IF],LENS,0-00-03	<b>Format type</b> LENS <b>Version</b> 0-00-03
[POWER_R],+5.25,-0.25,179	S +5.25D, C -0.25D, A(Axis) 179deg
[ADD_R],2.00,3.00	ADD1 2.00D ADD2 3.00D (if there is no ADD value, blank is filled up by changing the field)
[PRISM_R],+2.00,-0.25	PX 02.00△, PY D0.25△ (if there is no PX, PY value, blank is filled up by changing the field)
[PD_R],32.5	RPD 32.5mm (if there is no RPD value, blank is filled up by changing the field)
[OC_L_R],31	L 31mm
[POWER_L],+3.00,-0.75,89	S +3.00, C -0.75D A(Axis) 89deg
[ADD_L],1.50,	ADD1 1.50D ADD2 no value (if there is no ADD value, blank is filled up by changing the field)
[PRISM_L],-1.50,+0.50	PX I1.50△, PY U0.50△ (if there is no PX, PY value, blank is filled up by changing the field)
[PD_L],30.5	LPD 30.5mm (if there is no LPD value, blank is filled up by changing the field)
[OC_L_L],30	L 30mm

## DATA FORMAT : Examination data part LEMS (version:1-02-00)

### 3. Definition of TAG and fields in CSV file\_FORMAT:2

Chart 3 List of TAG name

Tag Name	Explanation of the tag	Number of appearance	Number of fields	Name of fields	Type of fields	Character type	The maximum number of the characters	Field following a tag	
								Detail	Unit
[POWER_R]	S, C, A values of Right lens	-	3	SPH	Num	ASCII	6	Signed decimal, (-99.99 to +99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	D
				CYL	Num	ASCII	6	Signed decimal, (-99.99 to +99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	D
				AXIS	Num	ASCII	3	Unsigned decimal, (0 to 999). When 2 <sup>nd</sup> and 3 <sup>rd</sup> digit is 0, blank is filled up by changing field position.	deg.
[ADD_R]	ADD power of Right lens	-	2	ADD1	Num	ASCII	5	Signed decimal, (-0.00 to +9.99)	D
				ADD2	Num	ASCII	5	Signed decimal, (-0.00 to +9.99)	D
[PRISM_SEL_R]	Prism display format of Right lens	-	1	Prism display format	Num	ASCII	1	0:No PRISM, 1:PX/PY, 2:PSM/BAS, 3:DCX/DCY	
[PRISM_R]	Prism value in orthogonal coordinates of Right lens	-	2	PX	Num	ASCII	6	Signed decimal, "+" is displayed as "O (out)". "-" is displayed as "I (in)". (-99.99 to 99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	Δ
				PY	Num	ASCII	6	Signed decimal "+" is displayed as "U (up)". "-" is displayed as "D (down)". (-99.99 to 99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	Δ
[PRISM_PC_R]	Prism value in Polar coordinates of Right lens	-	2	PSM	Num	ASCII	5	Unsigned decimal, (0 to 99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	Δ
				BAS	Num	ASCII	3	Unsigned decimal, (0 to 999). When 2 <sup>nd</sup> and 3 <sup>rd</sup> digit is 0, blank is filled up by changing field position.	deg.
[PRISM_EC_R]	Eccentricity from the measurement position to the optical center of Right lens	-	2	DCX	Num	ASCII	5	Signed decimal, (-99.9 to +99.9). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	mm
				DCY	Num	ASCII	5	Signed decimal, (-99.9 to +99.9). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	mm
[PD_R]	Right PD	-	1	RPD	Num	ASCII	4	Unsigned decimal, (0.0 to 99.9). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position	mm
[OC_L_R]	L value of Right	-	1	L	Num	ASCII	2	Unsigned decimal, (0 to 99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	mm
[POWER_L]	S, C, A values of Left lens	-	3	SPH	Num	ASCII	6	Signed decimal, (-99.99 to +99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	D
				CYL	Num	ASCII	6	Signed decimal, (-99.99 to +99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	D
				AXIS	Num	ASCII	3	Unsigned decimal, (0 to 999). When 2 <sup>nd</sup> and 3 <sup>rd</sup> digit is 0, blank is filled up by changing field position.	deg.
[ADD_L]	ADD power of Left lens	-	2	ADD1	Num	ASCII	5	Signed decimal, (-0.00 to +9.99).	D
				ADD2	Num	ASCII	5	Signed decimal, (-0.00 to +9.99).	D

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Tag Name	Explanation of the tag	Field following a tag								Unit
		Number of appearance	Number of fields	Name of fields	Type of fields	Character type	The maximum number of the characters	Detail		
[PRISM_SEL_L]	Prism display format of Left lens	–	1	Prism display format	Num	ASCII	1	0:No PRISM, 1:PX/PY, 2:PSM/BAS, 3:DCX/DCY		
[PRISM_L]	Prism value in orthogonal coordinates of Left lens	–	2	PX	Num	ASCII	6	Signed decimal “+” is displayed as “O (out)”. “–” is displayed as “I (in)”. (–99.99 to 99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	△	
				PY	Num	ASCII	6	Signed decimal “+” is displayed as “U (up)”. “–” is displayed as “D (down)”. (–99.99 to 99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	△	
[PRISM_PC_L]	Prism value in polar coordinates of Left lens	–	2	PSM	Num	ASCII	5	Unsigned decimal, (0 to 99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	△	
				BAS	Num	ASCII	3	Unsigned decimal, (0 to 999). When 2 <sup>nd</sup> and 3 <sup>rd</sup> digit is 0, blank is filled up by changing field position.	deg.	
[PRISM_EC_L]	Eccentricity from the measurement position to the optical center of Left lens	–	2	DCX	Num	ASCII	5	Signed decimal, (–99.9 to +99.9). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	mm	
				DCY	Num	ASCII	5	Signed decimal, (–99.9 to +99.9). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	mm	
[PD_L]	Left PD	–	1	RPD	Num	ASCII	4	Unsigned decimal, (0.0 to 99.9). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position	mm	
[OC_L_L]	L value of Left	–	1	L	Num	ASCII	2	Unsigned decimal, (0 to 99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	mm	
[P_H]	Horizontal prism value	–	1	P-H	Num	ASCII	6	Signed decimal “+” is displayed as “O (out)”. “–” is displayed as “I (in)”. (–99.99 to 99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	△	
[P_V]	Vertical prism value	–	1	P-V	Num	ASCII	6	Signed decimal “+” is displayed as “U (up)”. “–” is displayed as “D (down)”. (–99.99 to 99.99). When 2 <sup>nd</sup> digit is 0, blank is filled up by changing field position.	△	
[FILES_N]	Attached file number	–	2	File number	Num	ASCII	3	Unsigned integer(0 – 999)		
				Encryption	Letter	ASCII	–	“Blank” : encrypted “no encryption” : not encrypted		
[FILE]	File name and function	–	3	File name	Letter	ASCII	255	Letter(***.jpg)		
				File type	Letter	ASCII	4	Letter “COPY” : Screen Shot		
				Classification code	Letter	ASCII	2	Letter Refer ※1) About classification code		

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※1) About Classification code

Classification code	Category A (RL/S)		Category B (Type of Measurement)	
	R	Right	0	Normal Lens
	L	Left	1	Progressive Lens
	D	Both eyes	2	Contact Lens
	S	Single	X	No indication
	X	No indication		

## DATA FORMAT : Examination data part LEMS (version:1-02-00)

### 4. Sample (The portion following a common header)\_FORMAT:2

#### 4-1.Both eye measurement

Sample	Explanation
[FM_IF],LENS,1-02-00	<b>Format type</b> LENS <b>Version</b> 1-02-00
[POWER_R],+5.25,-0.25,179	S +5.25D, C -0.25D, A(Axis) 179deg
[ADD_R],+2.00,-3.00	ADD1 +2.00D ADD2 -3.00D (if there is no ADD value, blank is filled up by changing the field)
[PRISM_SEL_R],2	Polar coordinates
[PRISM_R],+2.00,-0.25	PX 02.00Δ, PY D0.25Δ (if there is no PX, PY value, blank is filled up by changing the field)
[PRISM_PC_R],2.00,135	PSM 2.00Δ, BAS 135deg (if there is no PSM, BAS value, blank is filled up by changing the field)
[PRISM_EC_R],+2.0,-0.2	DCX +2.0mm, DCY -0.2mm (if there is no DCX, DCY value, blank is filled up by changing the field)
[PD_R],32.5	RPD 32.5mm (if there is no RPD value, blank is filled up by changing the field)
[OC_L_R],31	L 31mm
[POWER_L],+3.00,-0.75,89	S +3.00, C -0.75D A(Axis) 89deg
[ADD_L],+1.50,	ADD1 +1.50D ADD2 no value (if there is no ADD value, blank is filled up by changing the field)
[PRISM_SEL_L],2	Polar coordinates
[PRISM_L],-1.50,+0.50	PX I1.50Δ, PY U0.50Δ (if there is no PX, PY value, blank is filled up by changing the field)
[PRISM_PC_L],1.50,15	PSM 1.50Δ, BAS 15deg (if there is no PSM, BAS value, blank is filled up by changing the field)
[PRISM_EC_L],+7.4,-2.4	DCX -7.4mm, DCY -2.4mm (if there is no DCX, DCY value, blank is filled up by changing the field)
[PD_L],30.5	LPD 30.5mm (if there is no LPD value, blank is filled up by changing the field)
[OC_L_L],30	L 30mm
[P_H],+0.50	Horizontal prism value +0.50Δ
[P_V],-0.25	Vertical prism value -0.25Δ
[FILES_N],1,no encryption	1 file is attached, No Encrypt

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[FILE], 2017-04-06\_14-11-25\_567.TL-7000.jpg, COPY, D0

「2017-04-06\_14-11-25\_567.TL-7000.jpg」Capture image of both eyes (Normal Lens)