

DATA FORMAT

REF

Table of Contents:

1. Definition of TAG and fields in CSV file.....2

2.Sample(The portion following a common header)...4

DATA FORMAT : Examination data part REF(version:1-01-0E)

1. Definition of TAG and fields in CSV file

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	
[VD]	Vertex distance	–	1	Distance	Num	ASCII	5	Unsigned floating(0.00~99.99)	mm
[N_R]	Number of right eye data	–	2	Number of right eye data	Num	ASCII	3	Unsigned integer(0~999)	
				Number of average data	Num	ASCII	1	Unsigned integer(0~1)	
[N_L]	Number of left eye data	–	2	Number of left eye data	Num	ASCII	3	Unsigned integer(0~999)	
				Number of average data	Num	ASCII	1	Unsigned integer(0~1)	
[POWER_R]	Power of right eye.	Max 32	5	Number of Data	String	ASCII	3	Unsigned integer(1~999), * or A. *is Representative value, A shows the average value.	
				spherical power	Num	ASCII	6	Signed floating(–99.99~+99.99)(Only 0.00 is the sign none.)	Diopter
				Cylindrical power	Num	ASCII	6	Signed floating(–99.99~+99.99)(Only 0.00 is the sign none.)	Diopter
				Astigmatism axial angle	Num	ASCII	3	Unsigned integer(0~179), Blank when there is no CYL power.	
				Information	String	ASCII	256	Additional information (String)	
[POWER_L]	Power of left eye.	Max 32	5	Number of Data	String	ASCII	3	Unsigned integer(1~999), * or A. *is Representative value, A shows the average data.	
				spherical power	Num	ASCII	6	Signed floating(–99.99~+99.99)(Only 0.00 is the sign none.)	Diopter
				Cylindrical power	Num	ASCII	6	Signed floating(–99.99~+99.99)(Only 0.00 is the sign none.)	Diopter

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				Astigmatism axial angle	Num	ASCII	3	Unsigned integer(0~179), Blank when there is no CYL power.	
				Information	String	ASCII	256	Additional information (String)	
[PD]	Value of PD	-	1	Value of PD	Num	ASCII	4	Unsigned floating(0.0~99.9)	mm

Note:

- +/-M/- of the astigmatism depends on the measuring instrument setting.
- POWER_R and POWER_L repeat and are described. The frequency depends on a number of each data.

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2.Sample(The portion following a common header)

2-1.Both eye measurement(Four times of right eyes and one time of left eyes)

Sample	Explanation
[FM_IF],REF,1-00-00	Format type ; REF version ; 1-00-00
[VD],12.00	VD=12.00mm
[N_R],4,1	There is four right eye measurement data Average data is available .
[POWER_R],1,+10.25,-5.25,30,	Value of 1 data (Right eye). S=+10.25D,C=-5.25D,30°
[POWER_R],2,+10.00,0.00,,	Value of 2 data (Right eye). S=+10.00D,C=0.00D
[POWER_R],3,+10.50,-5.00,0,	Value of 3 data (Right eye). S=+10.50D,C=-5.00D,0°
[POWER_R],*,+10.25,-5.25,30,	Representative value. S=+10.25D,C=-5.25D,30°
[POWER_R],A,+10.25,-5.25,20,	Average data S=+10.25D,C=-5.25D,20°
[N_L],1,0	There is one left eye measurement data number There is no average data
[POWER_L],1,+10.25,-5.25,30,	Value of 1 data (left eye) S=+10.25D,C=-5.25D,30°
[PD],55.0	Value of PD 55.0mm

2-2.Only right eye is measured.(Two times of right eye)

Sample	Explanation
[FM_IF],REF,1-00-00	Format type ; REF version ; 1-00-00
[VD],0.00	VD=CL(VD=0.00)
[N_R],3,1	There is three right eye measurement Average data is available
[POWER_R],1,-8.01,-0.25,10,	Value of 1 data (Right eye). S=-8.01D,-0.25D,10°
[POWER_R],*, -8.01,-0.25,10,	Value of 2 data (Right eye). S=-8.01D,-0.25D,10°
[POWER_R],3,-8.01,-0.25,10,	Value of 3 data (Right eye). S=-8.01D,-0.25D,10°
[POWER_R],A,-8.01,-0.25,10,	Average data. S=-8.01D,-0.25D,10°
[N_L],0,0	There is no Left eye measurement data There is no average data
[PD],	There is no PD value