

# DATA FORMAT

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## TORIC

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

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

Table1 Field in CSV TAG

Tag Name	Explanation of the tag	Field following a tag							
		No. of appearance	No. of fields	Name of fields	Type of fields	Character type	The maximum number of the characters	Detail	Unit
[FM_IF]	Unit format	-	2	Unit format	String	ASCII	64	Format for TORRIC	
				Version	String	ASCII	64	Character string of software version	
[TORIC_N_R]	Number of right eye Toric data	-	1	Number of all Toric data	Num	ASCII	3	Unsigned integer(1~999). The astigmatism none is a blank.	
[TORIC_REF_AXIS_R]	Reference axis of right eye	-	1	Angle	Num	ASCII	3	Unsigned integer(0~179). The astigmatism none is a blank.	°
[TORIC_IOL_AXIS_R]	IOL axis of right eye	—	1	Angle	Num	ASCII	3	Unsigned integer(0~179). The astigmatism none is a blank.	°
[KRT_N_R]	Number of right eye kerato data	-	1	Number of all Kerato data	Num	ASCII	3	The position Φ3 data Unsigned integer(1~999). The astigmatism none is a blank.	
[KRT_INF_R]	kerato Data number of right eye and measurement information	-	2	Data number	String	ASCII	3	Unsigned integer(1~999). *orA *is Representative value, A shows the average data.	
				measurement information	String	ASCII	256	In Representative value case, The data number is set. The astigmatism none is a blank.	
[KRT_K1_R]	Weak meridian of right eye	-	3	Meridian(mm)	Num	ASCII	5	Unsigned decimal (0.00~99.99) The astigmatism none is a blank.	mm
				Meridian(D)	Num	ASCII	5	Unsigned decimal (0.00~99.99) The astigmatism none is a blank.	Diopter
				Angle	Num	ASCII	3	Unsigned integer(0~179). The astigmatism none is a blank.	°
[KRT_K2_R]	Strong meridian of right eye	-	3	Meridian(mm)	Num	ASCII	5	Unsigned decimal (0.00~99.99) The astigmatism none is a blank.	mm
				Meridian(D)	Num	ASCII	5	Unsigned decimal (0.00~99.99) The astigmatism none is a blank.	Diopter
				Angle	Num	ASCII	3	Unsigned integer(0~179). The astigmatism none is a blank.	°
[KRT_CYL_R]	Cylindrical power of right eye	-	2	Cylindrical power	Num	ASCII	6	Signed decimal (-99.99~0.00). (Only 0.00 is the sign none.)	Diopter
				Angle	Num	ASCII	3	Unsigned integer(0~179). Blank when there is no CYL power.	°
[KRT_AV_R]	Average of strong and weak principal meridians(Right eye)	-	2	Meridian(mm)	Num	ASCII	5	Unsigned decimal (0.00~99.99) The astigmatism none is a blank.	mm
				Meridian(D)	Num	ASCII	5	Unsigned decimal (0.00~99.99) The astigmatism none is a blank.	Diopter
[DIA_N_R]	Number of right eye pupil diameter data	-	1	Number of all diameter data	Num	ASCII	3	Unsigned integer(1~999). The astigmatism none is a blank.	

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[DIA_PPL_R]	Right eye pupil diameter	-	3	Diameter of pupil	Num	ASCII	5	Unsigned decimal(0.00~99.99) The astigmatism none is a blank	mm
				X offset	Num	ASCII	6	Signed decimal(-99.99~+99.99) The astigmatism none is a blank	mm
				Y offset	Num	ASCII	6	Signed decimal(-99.99~+99.99) The astigmatism none is a blank	mm
[DIA_WTW_R]	The corneal horizontal diameter (white-to-white) of right eye	-	1	The corneal horizontal diameter (white-to-white)	Num	ASCII	6	Unsigned decimal (0.00~99.99) The astigmatism none is a blank.	mm
[TORIC_N_L]	Number of left eye Toric data	-	1	Number of all Toric data	Num	ASCII	3	Unsigned integer(1~999). The astigmatism none is a blank.	
[TORIC_REF_AXIS_L]	Reference axis of left eye	-	1	Angle	Num	ASCII	3	Unsigned integer(0~179). The astigmatism none is a blank.	°
[TORIC_IOL_AXIS_L]	IOL axis of right eye	—	1	Angle	Num	ASCII	3	Unsigned integer(0~179). The astigmatism none is a blank.	°
[KRT_N_L]	Number of left eye kerato data	-	2	Number of all Kerato data	Num	ASCII	3	The position Φ3 data Unsigned integer(1~999). The astigmatism none is a blank.	
[KRT_INF_L]	kerato Data number of left eye and measurement information	-	2	Data number	String	ASCII	3	Unsigned integer(1~999), *orA *is Representative value, A shows the average data.	
				measurement information	String	ASCII	256	In Representative value case, The data number is set. The astigmatism none is a blank.	
[KRT_K1_L]	Weak meridian of left eye	-	3	Meridian(mm)	Num	ASCII	5	Unsigned decimal (0.00~99.99) The astigmatism none is a blank.	mm
				Meridian(D)	Num	ASCII	5	Unsigned decimal (0.00~99.99) The astigmatism none is a blank.	Diopter
				Angle	Num	ASCII	3	Unsigned integer(0~179). The astigmatism none is a blank.	°
[KRT_K2_L]	Strong meridian of left eye	-	3	Meridian(mm)	Num	ASCII	5	Unsigned decimal (0.00~99.99) The astigmatism none is a blank.	mm
				Meridian(D)	Num	ASCII	5	Unsigned decimal (0.00~99.99) The astigmatism none is a blank.	Diopter
				Angle	Num	ASCII	3	Unsigned integer(0~179). The astigmatism none is a blank.	°
[KRT_CYL_L]	Cylindrical power of left eye	-	2	Cylindrical power	Num	ASCII	6	Signed decimal (-99.99~0.00). (Only 0.00 is the sign none.)	Diopter
				Angle	Num	ASCII	3	Unsigned integer(0~179). Blank when there is no CYL power.	°
[KRT_AV_L]	Average of strong and weak principal meridians(Left eye)	-	2	Meridian(mm)	Num	ASCII	5	Unsigned decimal (0.00~99.99) The astigmatism none is a blank.	mm
				Meridian(D)	Num	ASCII	5	Unsigned decimal (0.00~99.99) The astigmatism none is a blank.	Diopter
[DIA_N_L]	Number of left eye pupil diameter data	-	1	Number of all diameter data	Num	ASCII	3	Unsigned integer(1~999). The astigmatism none is a blank.	
[DIA_PPL_L]	Left eye pupil diameter	-	3	Diameter of pupil	Num	ASCII	5	Unsigned decimal(0.00~99.99) The astigmatism none is a blank	mm
				X offset	Num	ASCII	6	Signed decimal(-99.99~+99.99) The astigmatism none is a blank	mm
				Y offset	Num	ASCII	6	Signed decimal(-99.99~+99.99) The astigmatism none is a blank	mm

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DIA_WTW_L	The corneal horizontal diameter (white-to-white) of Left eye	-	1	The corneal horizontal diameter (white-to-white)	Num	ASCII	6	Unsigned decimal (0.00~99.99) The astigmatism none is a blank.	mm
[FILE_N]	Right eye pupil diameter	-	2	Number of the files	String	ASCII	3	Unsigned integer(1~2). The astigmatism none is a blank.	
				Encryption	String	ASCII	13	Disable: no encryption Enable: encryption	
[FILE]	Name and attribute of the attached files	MAX 2	3	File name of the attached file	String	ASCII	15	String (TORIC_*.JPG) * means R/L	
				File function	String	ASCII	4	String(COPY)	
				Function classification code	String	ASCII	2	String *1)	

\*1) Function classification code

Function classification code	classification A(R/L)	
	R	Right eye
	L	Left eye
	D	Both eyes
	X	Others

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

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

#### 2—1. Both eye measurement

Sample	Explanation
[FM_IF],TORIC,1-00-00	Unit format TORIC Version 1-00-00
[TORIC_N_R],1	(Right eye) Number of all Toric data 1
[TORIC_REF_AXIS_R],10	(Right eye) Refernce axis of right eye 10°
[TORIC_IOL_AXIS_R],30	(Right eye) IOL axis of right eye 30°
[KRT_N_R],1	(Right eye) Number of all kerato data 1
[KRT_INF_R],*,1	(Right eye) Representative value Representative value No.1
[KRT_K1_R],7.71,43.77,159	(Right eye) Weak meridian 7.71mm (43.77D) 159°
[KRT_K2_R],7.70,43.83,69	(Right eye) Strong meridian 7.70mm (43.83D) 69°
[KRT_CYL_R],-0.06,159	(Right eye) Cylindrical power -0.06D 159°
[KRT_AV_R],7.71,43.77,	(Right eye) Average of strong and weak principal meridians 7.71mm (43.77D)
[DIA_N_R],1	(Right eye) Number of right eye pupil diameter 1
[DIA_PPL_R],3.41,+0.01,-0.01	(Right eye) Pupil diameter 3.41mm Offset X:+0.01 / OffsetY: -0.01
[DIA_WTW_R],11.54	(Right eye) corneal horizontal diameter (white-to-white) 11.54mm
[TORIC_N_L],1,0	(Left eye) Number of all Toric data 1
[TORIC_REF_AXIS_L],10	(Left eye) Refernce axis of right eye 10°
[TORIC_IOL_AXIS_L],30	(Left eye) IOL axis of right eye 30°
[KRT_N_L],1	(Left eye) Number of all kerato data 1
[KRT_INF_L],*,1	(Left eye) Representative value Representative value No.1
[KRT_K1_L],7.71,43.77,159	(Left eye) Weak meridian 7.71mm (43.77D) 159°
[KRT_K2_L],7.70,43.83,69	(Left eye) Strong meridian 7.70mm (43.83D) 69°
[KRT_CYL_L],-0.06,159	(Left eye) Cylindrical power -0.06D 159°

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

[KRT_AV_L],7.71,43.77,	(Left eye) Average of strong and weak principal meridians 7.71mm(43.77D)
[DIA_N_L],1	(Left eye) Number of right eye pupil diameter 1
[DIA_PPL_L],3.41,+0.01,-0.01	(Left eye) Pupil diameter 3.41mm Offset X:+0.01 / OffsetY: -0.01
[DIA_WTW_L],11.54	(Left eye) corneal horizontal diameter (white-to-white) 11.54mm
[FILE_N],2,no encryption	Number of attachment file 2, no encryption
[FILE],TORIC_R.JPG,COPY,R	(Right eye) Attachment File name:TORIC_R.JPG, ScreenShot,
[FILE],TORIC_L.JPG,COPY,L	(Left eye) Attachment File name:TORIC_L.JPG, ScreenShot,

### 2—2. Only Left eyes are measured.

Sample	Explanation
[FM_IF],TORIC,1-00-00	Unit format TORIC Version 1-00-00
[TORIC_N_L],1	(Left eye) Number of all Toric data 1
[TORIC_REF_AXIS_L],10	(Left eye) Refernce axis of right eye 10°
[TORIC_IOL_AXIS_L],30	(Left eye) IOL axis of right eye 30°
[KRT_N_L],2,1	(Left eye) Number of all kerato data 2 Average data 1
[KRT_INF_L],10,	(Left eye) Selected data No.10
[KRT_K1_L],7.71,43.77,159	(Left eye) Weak meridian 7.71mm (43.77D) 159°
[KRT_K2_L],7.70,43.83,69	(Left eye) Strong meridian 7.70mm (43.83D) 69°
[KRT_CYL_L],-0.06,159	(Left eye) Cylindrical power -0.06D 159°
[KRT_AV_L],7.71,43.77,	(Left eye) Average of strong and weak principal meridians 7.71mm(43.77D)
[FILE_N],1,no encryption	Number of attachment file 1, no encryption
[FILE],TORIC_L.JPG,COPY,L	(Left eye) Attachment File name:TORIC_L.JPG, ScreenShot