

DATA FORMAT

TSAS

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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	
[VER]	Software Version	-	n	Version number 1	String	ASCII	16	String	
[FILES_N]	Number of the attached file	-	2	Number of the files	Num	ASCII	3	Unsigned integer (0~999)	
				Presence of encryption	String	ASCII	13	Encryption : Encrypt and forwards/ Blank : unencrypted	
[FILE]	File information	Max 60	3	File name of the attached file	String	UTF8	256	String	
				File Type	String	ASCII	64	String	
				File number	Num	ASCII		Integer	
[TSAS_TYPE]	TSAS analysis type	-	1	TSAS analysis type	String	ASCII	64	Model name	
[RL]	L/R eye to be measured	-	1	Right or Left	String	ASCII	32	r / l	
[ID_MC]	Inspection number	-	1	Inspection number of equipment	Num	ASCII	64	String	
[CONE]	Cone	-	1	Type of corn	String	ASCII		n/m/l	
[MEASURING_TIME]	Measurement time		1	Measurement time (Sec.), Setting value	Num	ASCII		Integer	
[SHOT_STEP]	Shot interval	-	1	Measurement interval	Num	ASCII		Signed decimal	
[AUTOALIGNMENT]	Alignment	-	1	Auto alignment Manual alignment	String	ASCII		aa:Auto Alignment ma:Manual Alignment	
[AUTOSHOT]	Auto shot	-	1	Auto shot	String	ASCII		am:Auto Shot pm:Manual Shot	
[AS_TIMER]	Auto shot timer	-	1	Time to capturing from alignment add up	Num	ASCII		Integer	(mSec)

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[TOPO_TYPE]	Analysis type	-	1	TOPO analysis type	String	ASCII		RT-6000 or RT-7000	
[TOPO_COUNT]	Number of TOPO images	-	1	Number of TOPO images	Num	ASCII		Integer	
[TOPO_SELECT]	TOPO selection	-	11	Selection of TOPO images	Num	ASCII		0/1	
[RING]	Number of rings	-	1	Number of TOPO rings	Num	ASCII		Integer	
[WIDTH]	Width of TOPO image	-	1	Width of TOPO image	Num	ASCII		Integer	
[HEIGHT]	Height of TOPO image	-	1	Height of TOPO image	Num	ASCII		Integer	
[BLINK_FLAG]	Presence of blinking	-	11	Presence of blinking	Num	ASCII		0/1	
[SHOT_TIME]	Measurement period	-	11	Measurement period	Num	ASCII		Integer	(mSec)
[OFFSET_X]	X offset of TOPO image	-	11	X offset of TOPO image	Num	ASCII		Signed decimal	
[OFFSET_Y]	Y offset of TOPO image	-	11	Y offset of TOPO image	Num	ASCII		Signed decimal	
[OFFSET_Z]	Z offset of TOPO image	-	11	Z offset of TOPO image	Num	ASCII		Signed decimal	
[CENTER_X]	X axis of Center of TOPO image	-	11	X axis of center of TOPO image	Num	ASCII		Signed decimal	
[CENTER_Y]	Y axis of Center of TOPO image	-	11	Y axis of Center of TOPO image	Num	ASCII		Signed decimal	
[MM_PER_PIXEL]	"mm/pix" of TOPO image	-	11	"mm/pix" of TOPO image	Num	ASCII		Signed decimal	
[RBUT]	Ring Breakup Time	-	1	Ring Breakup Time	Num	ASCII		Signed decimal	(sec)
[RBU_LEVEL1]	Ring Breakup Level1	-	1	Ring Breakup Level1	Num	ASCII		Signed decimal	
[RBU_LEVEL2]	Ring Breakup Level2	-	1	Ring Breakup Level2	Num	ASCII		Signed decimal	
[RBUT_INDEX]	Ring Breakup Time Index	-	11	Ring Breakup Time Index	Num	ASCII		Signed decimal	

※Remarks: Type of file

「Calibration」 Calibration data file

「Raw」 RAW data file

「Capture」 Capture data file

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2.Sample(The portion following a common header)

2-1.Single eye measurement(Calibration data file + 11 right eye images were attached.)

Sample	Explanation
[FM_IF],TSAS,1-20-00	Format type ; TSAS version ; 1-20-00
[VER],1.00	Software Version 1.00
[FILE_N],12,no encryption	12 attached files which unencrypted were forwarded
[FILE],Calib-N.ini,Calibration,	Calibration data file: File name:Calib-N.ini、
[FILE],000000rs.bin.zlib,Raw Data,0	The 0th measurement data:File name:000000rs.bin.Zlib
[FILE],000010rs.bin,Raq Data,10	The 10th measurement data: File name:000010rs.bin
[TSAS_TYPE],RT-7000	TSAS analysis type:RT-7000
[RL],R	Right eyes
[ID_MC],1139	ID number:1139
[CONE],n	The cone was located at the near position.
[MEASURING_TIME],10	The measurement time was 10 seconds.
[SHOT_STEP],1.0	The measurement interval was 1 second.
[AUTOALIGNMENT],aa	The auto alignment setting was turned on.
[AUTOSHOT],pm	The auto shot setting was turned off.
[AS_TIMER],500	The auto shot timer was 500 mSec.
[TOPO_TYPE],RT-7000	The TOPO analysis type was RT-7000.
[TOPO_COUNT],11	The number of TOPO images was 11 images.
[TOPO_SELECT] ,1,0,1,1,1,1,1,1,1,1,1	All TOPO images selection was selected except the image which captured at 1 second.
[RING],15	The ring number was 15.
[WIDTH],640	The width of TOPO image was 640 dots.
[HEIGHT],480	Height of TOPO image was 480 dots.
[BLINK_FLAG],0,0,0,0,0,0,0,0,0,0,1	The blinking was appeared on 10 seconds.
[SHOT_TIME],847,1002,2009,3066,4079,5004,6002,7002,8004,9004,10003	Measurement period (mSec).
[OFFSET_X],0.00,-0.01,-0.02,-0.03,-0.04,0.05,0.06,0.07,0.08,0.09,0.10	X Offset of TOPO image(Scale:mm,from 0 second to 10 seconds)
[OFFSET_Y],0.10,-0.09,-0.08,-0.07,-0.06,0.05,0.04,0.03,0.02,0.01,0.00	Y Offset of TOPO image(Scale:mm,from 0 second to 10 seconds)
[OFFSET_Z],0.00,0.01,0.02,0.03,0.04,0.05,0.06,0.07,0.08,0.09,0.10	Z Offset of TOPO image(Scale:mm,from 0 second to 10 seconds)

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[CENTER_X],315,316,317,318,319,320,321,322,323,324,335	X axis of center of TOPO image (Scale:dot,11 images which captured from 0 second to 10 seconds)
[CENTER_Y],235,236,237,238,239,240,241,242,243,244,245	Y axis of center of TOPO image (Scale: dot, 11 images which captured from 0 second to 10 seconds)
[MM_PER_PIXEL],0.056	"mm/pix" of TOPO image 0.056 mm/pix
[RBUT],10.0	"Ring Breakup Time" was 10.0 seconds.
[RBU_LEVEL1],0.005	"Ring Breakup Level1" was 0.005.
RBU_LEVEL2],20.0	"Ring Breakup Level2" was 20.0.
[RBUT_INDEX],0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0	"Ring Breakup Time Index" (11 images which captured from 0 second to 10 seconds)