

# DATA FORMAT

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## B-AXL2

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**DATA FORMAT : Examination data part B-AXL2 (version:1-00-09)**
**1. Definition of TAG and fields in CSV file**

First cover. Tag List

Tag Name	Explanation of the tag	Field following a tag								Unit
		Number of appearance	Number of fields	Name of fields	Letter type	Character type	The maximum number of the characters	Detail		
[MAC_V]	Software Version	ex:UD-8000								
		-	9	T-Engine CPU software version	String	ASCII	6	Character string of T-Engine CPU software version Example: TEC000		
				T-Engine FPGA software version	String	ASCII	6	Character string of T-Engine FPGA software version Example: TEF000		
				Microblaze software version	String	ASCII	6	Character string of Microblaze software version Example: MBC000		
				Digital FPGA software version1	String	ASCII	6	Character string of Digital FPGA software version 1 Example: D1F000		
				Digital FPGA software version2	String	ASCII	6	Character string of Digital FPGA software version 2 Example: D2F000		
				DSP software version	String	ASCII	6	Character string of DSP software version Example: DSP000		
				Analog CPU software version	String	ASCII	6	Character string of Analog CPU software version Example: ANC000		
				Bluetooth CPU software version	String	ASCII	6	Character string of Bluetooth CPU software version Example: BTC000		
				Touch Panel software version	String	ASCII	6	Character string of Touch Panel software version Example: TPC000		
[EDIT_MAC_V]	Software version of final edit	ex:UD-8000								
		-	10	Model name	String	ASCII	12	Model name of measurement:UD8000 Following is version of that model.		
				T-Engine CPU software version	String	ASCII	6	Character string of T-Engine CPU software version Example: TEC000		
				T-Engine FPGA software version	String	ASCII	6	Character string of T-Engine FPGA software version Example: TEF000		
				Microblaze software version	String	ASCII	6	Character string of Microblaze software version Example: MBC000		
				Digital FPGA software version1	String	ASCII	6	Character string of Digital FPGA software version 1 Example: D1F000		

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				Digital FPGA software version2	String	ASCII	6	Character string of Digital FPGA software version 2 Example: D2F000	
				DSP software version	String	ASCII	6	Character string of DSP software version Example: DSP000	
				Analog CPU software version	String	ASCII	6	Character string of Analog CPU software version Example: ANC000	
				Bluetooth CPU software version	String	ASCII	6	Character string of Bluetooth CPU software version Example: BTC000	
				Touch Panel software version	String	ASCII	6	Character string of Touch Panel software version Example: TPC000	
[LINE_NU]	Storage Line No	-	1	Line No	Num	ASCII	3	Acoustic line number when saving data Unsigned integer	line
[RL]	L/R eye to be measured	-	1	Left or Right	String	ASCII	5	One of the character strings of [Left] or [Right]	—
[PRB_TYP]	Probe Type	-	1	Probe Type	String	ASCII	10	the character strings of [B-15MHz]	—
[SNC_SPD]	Sonic speed	-	1	sonic speed	Num	ASCII	4	Unsigned integer	m/s
[PRB_DRT_TIM]	Probe Direction	-	1	Probe Direction	String	ASCII	5	One of the character strings of [12][1:30][3][4:30][6][7:30][9] or [10:30] When you have no setup, it is blank.	—
[SCP]	Scope	-	1	Scope	String	ASCII	6	One of the character strings of [Normal] or [Wide]	—
[AMP]	Amp Type	-	1	Amp Type	String	ASCII	6	One of the character strings of [Log] or [LINEAR]	—
[POST_PROCESS ]	Post Process	-	2	Total Gain	Num	ASCII	3	Signed integer(+10.0~-10.0)	-
				Dynamic Range	Num	ASCII	3	Signed integer(+10.0~-10.0)	-
[SIZE]	Size of image	-	2	X-Axis	Num	ASCII	4	Unsigned integer The number of pixels of the X-axis of an attachment image file UD8000:500*600	dot
				Y-Axis	Num	ASCII	4	Unsigned integer The number of pixels of the Y-axis of an attachment image file UD8000:500*600	dot
[PITCH]	Pixel pitch	-	2	Pixel pitch of X-Axis	Num	ASCII	5	Unsigned decimal (*.***) Distance with the next pixel in the X-axis	mm
				Pixel pitch of Y-Axis	Num	ASCII	5	Unsigned decimal (*.***) Distance with the next pixel in the X-axis	mm
[COLOR]	Color	-	1	Color	String	ASCII	6	One of the character strings of [MONO1][MONO2][COLOR1] or [COLOR2]	-
[PCB]	DR Maximum reference position	-	1	PCB	Num	ASCII	5	Unsigned integer(0~65535)	-
[SDB]	SDB	-	1	SDB	Num	ASCII	6	Unsigned decimal (*.**)	-
[EYE_TYPE]	Eye type	-	3	Eye Eype	String	ASCII	13	One of the character strings of [Phakic], [dense], [Aphakic], [IOL] or [PhkicIOL].	-
				Velocity of axial	String	ASCII	13	Average, Divided	
				Material of IOL	String	ASCII	13	One of the character strings of [Acrylic resin], [silicon], [PMMA] or [user setting]. However [user setting] is any.	
[VEL]	Sonic speed of measuring	-	6	Biometry Average	Num	ASCII	4	Unsigned integer Biometry average ultrasound velocity (Normal, Dense, Aphakic)	m/s

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				LENS	Num	ASCII	4	Unsigned integer IOL ultrasound velocity (Pseudo)	m/s
				ACD	Num	ASCII	4	Unsigned integer Biological ultrasound velocity (Pseudo)	m/s
				Vitreous	Num	ASCII	4	Unsigned integer Biometry vitreous ultrasound velocity	m/s
				IOL	Num	ASCII	4	Unsigned integer IOL ultrasound velocity	m/s
				Phakic IOL	Num	ASCII	4	Unsigned integer Phakic IOL ultrasound velocity	m/s
[IOL_TH]	IOL Thickness	-	2	IOL Thickness	Num	ASCII	4	Unsigned decimal (*.**) IOL Thickness ((Pseudo)	mm
				Phakic IOL Thickness	Num	ASCII	4	Unsigned decimal (*.**) Phakic IOL Thickness ((Pseudo)	mm
[MSR]	Measurement value	-	3	Axial Length	Num	ASCII	5	Unsigned decimal (**.**)	mm
				ACD	Num	ASCII	5	Unsigned decimal (**.**)	mm
				LENS	Num	ASCII	5	Unsigned decimal (**.**)	mm
[CUR_POS]	Cursor position	-	5	Cornea	Num	ASCII	3	Cursor position of cornea Unsigned integer	—
				Phakic IOL front	Num	ASCII	3	Cursor position of Phakic IOL front Unsigned integer	—
				LENS front	Num	ASCII	3	Cursor position of LENS front Unsigned integer	—
				LENS rear	Num	ASCII	3	Cursor position of LENS rear Unsigned integer	—
				Retina	Num	ASCII	3	Cursor position of Retina Unsigned integer	—
[COMMENT]	Comment	-	1	Comment	String	ASCII	36	Comment	—
[FILES_N]	Number of the attached files	-	1	Number of the files	Num	ASCII	3	Unsigned integer 1:Thumbnail Disable 2:thumbnail Enable	num
[FILE]	Name and attribute of the attached files	MAX 32	2	File name of the attached file	String	ASCII	256	File Name UD-8000: FMT=STILL[****.BAE] BMP images for thumbnails:[****.BMP]	—
[CL_ID]	Clinic ID	-	1	Clinic ID	String	ASCII	64	When you have no setup, it is blank.	—
[CL_ADRS]	Clinic address	-	1	Clinic address	String	ASCII	64	When you have no setup, it is blank.	—
[EX_INFO]	Technical Information	-	1	Technical Information	String	ASCII	128	When you have no setup, it is blank.	—

**Attention**

- If you do not need the attachments, [FILES\_N] [FILE] is omitted.

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**DATA FORMAT : Examination data part** B-AXL2 (version:1-00-09)

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Attached the file

- STILL Data File            File Name: \*\*\*\*\*.BAE
  - [TYPE Flag (16bit\_Binary\_BigEndian)]
  - [0x0000 (16bit\_Binary\_BigEndian)]            (blank)
  - [Number of lines (16bit\_Binary\_BigEndian)]
  - [Number of data (16bit\_Binary\_BigEndian)]
  - [Reserve (16bit\_Binary\_BigEndian)]
  - [FrameNo.1 TG (16bit\_Binary\_BigEndian)]
  - [FrameNo.1 DR (16bit\_Binary\_BigEndian)]
  - [FrameNo.1 NG/FG (16bit\_Binary\_BigEndian)]
  - [FrameNo.1、LineNo.1、DataNo.1 (16bit\_Binary\_BigEndian)]
  - [FrameNo.1、LineNo.1、DataNo.2 (16bit\_Binary\_BigEndian)]
  - .....
  - [FrameNo.1、LineNo.1、DataNo.Last (16bit\_Binary\_BigEndian)]
  - [FrameNo.1、LineNo.2、DataNo.1 (16bit\_Binary\_BigEndian)]
  - .....
  - [FrameNo.1、LineNo.Last、DataNo.Last (16bit\_Binary\_BigEndian)]
  - ※TYPE flag.....Reserve (0x0000)
  
- BMP images for thumbnails

## DATA FORMAT : Examination data part B-AXL2 (version:1-00-09)

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

#### Right Eye(ECHO)

Sample	Explanation
[FM_IF],BAXL2,1-00-00	Version of B-AXL2 format for UD is 1-00-00
[MAC_V],TEC000,TEF000,MBC000,D1F000,D2F000,DSP000,ANC000,BTC000,TPC000	Measuring Unit: UD-8000, T-Engine CPU soft ver.TEC000, T-Engine FPGA soft ver.TEF000, Microblaze soft ver.MBC000, Digital FPGA soft1 ver.D1F000, Digital FPGA soft2 ver.D2F000, DSP soft ver.DSP000, Analog CPU soft ver.ANC000, Bluetooth CPU soft ver.BTC000, Touch Panel soft ver.TPC000
[EDIT_MAC_V],UD-8000,TEC000,TEF000,MBC000,D1F000,D2F000,DSP000,ANC000,BTC000,TPC000	Last Edit:UD-8000, T-Engine CPU soft ver.TEC000, T-Engine FPGA soft ver.TEF000, Microblaze soft ver.MBC000, Digital FPGA soft1 ver.D1F000, Digital FPGA soft2 ver.D2F000, DSP soft ver.DSP000, Analog CPU soft ver.ANC000, Bluetooth CPU soft ver.BTC000, Touch Panel soft ver.TPC000
[LINE_NU],5	Acoustic line number when saving data=5
[RL],Right	Right eye
[PRB_TYP], B-15MHz	Probe is for 15MHz
[SNC_SPD],1550	Sonic speed=1550m/s
[PRB_DRT_TIM], 1:30	Probe direction =1:30
[SCP],Normal	Scope=Normal
[AMP],LOG	Amp Type=LOG
[POST_PROCESS],+10,-10	PostProcess TG=+10, DR=-10
[SIZE],500,600	X-Axis =500,Y-Axis =600
[PITCH],0.022,0.022	Pitch x=0.022mm,y=0.022mm
[COLOR],MONO1	Color=Monochrome Type 1
[PCB],20000	PCb=20000
[SDB],204.80	SDB=204.80

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[EYE_TYPE],Phakic,Average,Acrylic resin	EyeType=Phakic, Velocity of axial=Average, Material of IOL=Acrylic resin
[VEL],1550,,,,,	Average velocity=1550m/s, LENS velocity=Blank, ACD velocity=Blank, Vitreous velocity=Blank, IOL velocity=Blank, Phakic IOL velocity=Blank
[IOL_TH],,	IOL thickness = no data, Phakic IOL thickness = no data,
[MSR],24.52,2.93,3.76	Axial Length =24.52mm, ACD =2.93mm, Lens =3.76mm
[CUR_POS],40,50,65,105,365	Cornea Cursor=40, Phakic IOL front Cursor=50, Lens front Cursor=65, Lens rear Cursor=105, Retina Cursor=365
[COMMENT],This is the comment.	This is the comment.
[FILES_N],2	Attached file:2
[FILE],12345.BAE	Number of attachment file=12345.BAE
[FILE],12345.BMP	Attachment File name =12345.BMP
[CL_ID],xxxxx	Clinic ID = xxxxx
[CL_ADRS],yyyyy	Clinic Address=yyyyy
[EX_INFO],zzzzz	Technical Information=zzzzz