

# DATA FORMAT

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# OPTAXIAL

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

Table 1 Field in CSV TAG

| Tag Name                             | Explanation of the tag          | Field following a tag    |              |                              |             |           |                                  |   |                          |  |
|--------------------------------------|---------------------------------|--------------------------|--------------|------------------------------|-------------|-----------|----------------------------------|---|--------------------------|--|
|                                      |                                 | No. of appearance        | No. of field | Name of field                | Letter type | Data type | Maximum number of the characters | Detail  | Unit                     |  |
| Measurement data (OA-1000 main unit) |                                 |                          |              |                              |             |           |                                  |   |                          |  |
| [FM_IF]                              | Unit format                     |                          | 1            | Unit format                  | letter      | ASCII     | less than 14                     | Format for OPTAXIAL   | -                        |  |
| [MAC_V]                              | Software version                |                          | 1            | Version                      | letter      | ASCII     | less than 7                      | Character string of software version, blank means no data                                 | -                        |  |
| [MSR_MAC_V<br>]                      | Software Version                | Example OA-1000          |              |                              |             |           |                                  |   |                          |  |
|                                      |                                 | -                        | 4            | Model name                   | letter      | ASCII     | 8                                | Model name of last edit :OA-1000<br>Following is version of that model.                   | -                        |  |
|                                      |                                 |                          |              | CPU software version         | letter      | ASCII     | 3                                | Character string of digital board CPU software version                                    |                          |  |
|                                      |                                 |                          |              | FPGA version                 | letter      | ASCII     | 3                                | Character string of Axial FPGA version  |                          |  |
|                                      |                                 |                          |              | LAN software version         | letter      | ASCII     | 3                                | Character string of Pachy FPGA version  |                          |  |
| [EDIT_MAC_V<br>]                     | Software Version                | Example:Calculation Unit |              |                              |             |           |                                  |   |                          |  |
|                                      |                                 | -                        | 4            | Model name                   | letter      | ASCII     | 12                               | Model name of last edit :AL-4000_CAL<br>Following is version of that model.               |                          |  |
|                                      |                                 |                          |              | CPU software version         | letter      | ASCII     | 6                                | Character string of CPU software version<br>Example: LNC000                               |                          |  |
|                                      |                                 |                          |              | FPGA version                 | letter      | ASCII     | 6                                | Character string of FPGA version<br>Example: EXF000                                       |                          |  |
|                                      |                                 |                          |              | Touch panel software version | letter      | ASCII     | 6                                | Character string of Touch panel software version<br>Example: TPC000                       |                          |  |
| [BARRETT_V]                          | The Barrett IOL formula version | -                        | 6            | Barrett Common               | String      | ASCII     | 6                                | Character string of Barrett IOL formula comprehensive software version<br>Example: V.1.05 | Barrett Comm on          |  |
|                                      |                                 |                          |              | Barrett UniversalII          | String      | ASCII     | 6                                | Character string of Barrett Universal II software version<br>Example: V.1.05              | Barrett Univers allII    |  |
|                                      |                                 |                          |              | Barrett ToricCalculator      | String      | ASCII     | 6                                | Character string of Barrett ToricCalculator software version<br>Example: V.1.05           | Barrett ToricCa lculator |  |
|                                      |                                 |                          |              | Barrett TrueK                | String      | ASCII     | 6                                | Character string of Barrett TrueK software version<br>Example: V.1.05                     | Barrett TrueK            |  |

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|                     |  |   |   |                                |        |       |              |  |                                |
|---------------------|--|---|---|--------------------------------|--------|-------|--------------|--|--------------------------------|
|                     |  |   |   | Barrett TrueK Toric Calculator | String | ASCII | 6            | Character string of Barrett TrueK ToricCalculator software version<br>Example: V.1.05  | Barrett TrueK Toric Calculator |
|                     |  |   |   | Barrett Rx                     | String | ASCII | 6            | Character string of Barrett Rx software version<br>Example: V.1.05   | Barrett Rx                     |
| [FITTING_TY PE]     | Formula type of fitting                        |   | 1 | Formula type of fitting        | letter | ASCII | 32           | Character string of fitting formula version  |                                |
| [OP_ETYP_R]         | Optical measurement eye type                   |   | 1 | Eye type                       | letter | ASCII | less than 14 | Show one of (Phakic/Aphakic/ PMMA/Silicone/ Acrylic/SO_Phakic/ SO_Aphakic/ SO_PMMA/ SO_Silicone/ SO_Acrylic) , blank means no data | -                              |
| [OP_ATMN_R]         | measurement method                             |   | 1 | measurement method             | letter | ASCII | less than 7  | Auto/Manual, blank means no data   | -                              |
| [OP_MPNT_R]         | Measurement lens position                      |   | 1 | Measurement lens position      | letter | ASCII | less than 9  | Normal/Cataract, blank means no data   |                                |
| [OP_CONV_R]         | Measurement result conversion method           |   | 1 | Conversion method              | letter | ASCII | less than 10 | Contact/Immersion/OptLength, blank means no data   | -                              |
| [OP_REF_R]          | refractive index                               |   | 7 | Axial length (avg.)            | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.3000 - 1.4000)   | -                              |
|                     |  |   |   | ACD (avg.)                     | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.3000 - 1.4000)   | -                              |
|                     |  |   |   | Lens                           | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.3500 - 1.4500)   | -                              |
|                     |  |   |   | vitreous                       | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.3300 - 1.4300)   | -                              |
|                     |  |   |   | cornea                         | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.3000 - 1.4000)   | -                              |
|                     |  |   |   | IOL thickness                  | number | ASCII | less than 7  | Unsigned decimal, blank means no data(0.100 - 4.000)   | -                              |
|                     |  |   |   | IOL refractive index           | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.3000 - 1.4000)   | -                              |
| [OP_IOL_PMA_R]      | thickness and refractive index of PMMA IOL     | - | 2 | IOL thickness                  | number | ASCII | less than 6  | Unsigned decimal, blank means no data(0.100 - 4.000)   | mm                             |
|                     |  |   |   | IOL refractive index           | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.0000 - 1.9999)   | —                              |
|                     |  |   |   |                                |        |       |              |  |                                |
| [OP_IOL_SILICONE_R] | thickness and refractive index of SILICONE IOL | - | 2 | IOL thickness                  | number | ASCII | less than 6  | Unsigned decimal, blank means no data(0.100 - 4.000)   | mm                             |
|                     |  |   |   | IOL refractive index           | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.0000 - 1.9999)   | -                              |
| [OP_IOL_ACRYLIC_R]  | thickness and refractive index of ACRYLIC IOL  | - | 2 | IOL thickness                  | number | ASCII | less than 6  | Unsigned decimal, blank means no data(0.100 - 4.000)   | mm                             |
|                     |  |   |   | IOL refractive index           | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.0000 - 1.9999)   | -                              |
| [OP_AXIAL_NUMBER_R] | Number of axial length data                    |   | 5 | number of data                 | number | ASCII | less than 3  | Unsigned integer(0 - 11)   | -                              |
|                     |  |   |   | Average                        | number | ASCII | less than 6  | Unsigned decimal, blank means no data(14.00 - 40.00)   | mm                             |

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|  |                                       |  |   |  |        |        |                      |   |     |
|--|---------------------------------------|--|---|--|--------|--------|----------------------|---|-----|
|  |                                       |  |   | Waveform selection<br>No. for IOL<br>calculation | number | ASCII  | less than 2          | Unsigned integer(0 - 9, I, A), blank means no data<br>0 - 9: Normal waveform I: Integral waveform A: average  | -   |
|  |                                       |  |   | Waveform No.                                     | number | ASCII  | less than 2          | Unsigned integer(0 - 9, I), blank means no data<br>0 - 9: Normal waveform I: Integral waveform<br>(When [A: average] is selected in "Waveform selection No. for IOL", different<br>number is shown in this form.) | -   |
|  |                                       |  |   | Standard Deviation                               | number | ASCII  | less than 5          | Unsigned decimal, blank means no data(0.00 - 1.00)  | mm  |
| [OP_AXIALn_<br>R]<br>n=0 - 9               | axial length                          |  | 7 | Measurement result                               | number | ASCII  | less than 6          | Unsigned decimal, blank means no data(14.00 - 40.00)  | mm  |
|  |                                       |  |   | Measurement<br>position                          | number | ASCII  | less than 5          | Unsigned integer, blank means no data(0 - 4199)   | dot |
|  |                                       |  |   | Initial measurement<br>result                    | number | ASCII  | less than 6          | Unsigned decimal, blank means no data(14.00 - 40.00)  | mm  |
|  |                                       |  |   | Initial measurement<br>position                  | number | ASCII  | less than 5          | Unsigned integer, blank means no data(0 - 4199)   | dot |
|  |                                       |  |   | SNR  | number | ASCII  | less than 6          | Unsigned decimal, blank means no data(0.0 - 999.0)  | -   |
|  |                                       |  |   | Initial count number                             | number | ASCII  | less than 5          | Unsigned decimal, blank means no data(900 - 4199)   | -   |
|  |                                       |  |   | status   | letter | ASCII  | 1                    | "!": low reliability data, "c": data after caliper function, "e": error data. Blank means<br>no data.   | -   |
| [OP_AXIAL_W<br>AVE_FMn_R]<br>n=0 - 9<br>※2 | axial length<br>waveform<br>condition |  | 4 | thinning   | number | ASCII  | Less than 4          | Unsigned decimal, blank means no data(without range)  | -   |
|  |                                       |  |   | number of waveform<br>data (horizontal<br>axis ) | number | ASCII  | less than 5          | Unsigned integer, blank means no data(640)  | -   |
|  |                                       |  |   | waveform starting<br>point                       | number | ASCII  | less than 5          | Unsigned integer, blank means no data(0 - 4199)   | dot |
|  |                                       |  |   | waveform height                                  | number | binary | Less and<br>4200byte | binary, no data is displayed as 0x00(without range)   | -   |
| [OP_ACD_N_<br>R]                           | ACD<br>number of data                 |  | 5 | number of data                                   | number | ASCII  | less than 3          | Unsigned integer(0 - 11)  | -   |
|  |                                       |  |   | average  | number | ASCII  | less than 5          | Unsigned decimal, blank means no data(1.50 - 7.00)  | mm  |
|  |                                       |  |   | Waveform selection<br>No. for IOL<br>calculation | number | ASCII  | less than 2          | Unsigned integer(0 - 9, I, A)<br>0 - 9: Normal waveform I: Integral waveform A: average   | -   |
|  |                                       |  |   | Waveform No.                                     | number | ASCII  | less than 2          | Unsigned integer(0 - 9, I)<br>0 - 9: Normal waveform I: Integral waveform<br>(When [A: average] is selected in "Waveform selection No. for IOL", different<br>number is shown in this form.)                      | -   |
|  |                                       |  |   | Standard Deviation                               | number | ASCII  | less than 5          | Unsigned decimal, blank means no data(0.00 - 1.00)  | mm  |
| [OP_ACDn_R]<br>n=0 - 9                     | ACD                                   |  | 7 | Measurement result                               | number | ASCII  | less than 5          | Unsigned decimal, blank means no data(1.50 - 7.00)  | mm  |
|  |                                       |  |   | Measurement<br>position                          | number | ASCII  | less than 5          | Unsigned integer, blank means no data(0 - 4199)   | dot |

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|                                       |                               |  |   |  |        |        |                   |  |     |
|---------------------------------------|-------------------------------|--|---|--|--------|--------|-------------------|--|-----|
|                                       |                               |  |   | Initial measurement result                 | number | ASCII  | less than 5       | Unsigned decimal, blank means no data(1.50 - 7.00)   | mm  |
|                                       |                               |  |   | Initial measurement position               | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|                                       |                               |  |   | SNR  | number | ASCII  | less than 6       | Unsigned decimal, blank means no data(0.0 - 999.0)   |     |
|                                       |                               |  |   | Initial count number                       | number | ASCII  | less than 5       | Unsigned decimal, blank means no data(50 - 2000)   | -   |
|                                       |                               |  |   | status                                     | letter | ASCII  | 1                 | "I": low reliability data, "c": data after caliper function, "e": error data. Blank means no data. | -   |
| [OP_ACD_WAVE_FMn_R]<br>n=0 - 9<br>※2  | ACD waveform condition        |  | 4 | thinning                                   | number | ASCII  | Less than 4       | Unsigned decimal, blank means no data(without range)   | -   |
|                                       |                               |  |   | number of waveform data (horizontal axis ) | number | ASCII  | less than 5       | Unsigned integer, blank means no data(640)   | -   |
|                                       |                               |  |   | waveform starting point                    | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|                                       |                               |  |   | waveform height                            | number | binary | Less and 4200byte | binary, no data is displayed as 0x00(without range)  | -   |
| [OP_LENS_N_R]                         | Lens thickness number of data |  | 5 | number of data                             | number | ASCII  | less than 3       | Unsigned integer(0 - 10)   | -   |
|                                       |                               |  |   | average                                    | number | ASCII  | less than 5       | Unsigned decimal, blank means no data  | mm  |
|                                       |                               |  |   | Waveform selection No. for IOL calculation | number | ASCII  | less than 2       | Unsigned integer(0 - 9, I, A)<br>0 - 9:Normal waveform I:Integral waveform A:average               | -   |
|                                       |                               |  |   | Waveform No.                               | number | ASCII  | less than 2       | Unsigned integer(0 - 9, I)<br>0 - 9:Normal waveform I:Integral waveform                            | -   |
|                                       |                               |  |   | Standard Deviation                         | number | ASCII  | less than 5       | Unsigned decimal, blank means no data(0.00 - 1.00)   | mm  |
| [OP_LENSn_R]<br>n=0 - 9               | Lens thickness                |  | 7 | Measurement result                         | number | ASCII  | less than 5       | Unsigned decimal, blank means no data  | mm  |
|                                       |                               |  |   | Measurement position                       | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|                                       |                               |  |   | Initial measurement result                 | number | ASCII  | less than 5       | Unsigned decimal, blank means no data  | mm  |
|                                       |                               |  |   | Initial measurement position               | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|                                       |                               |  |   | SNR  | number | ASCII  | less than 5       | Unsigned decimal, blank means no data(0.0 - 999.0)   | -   |
|                                       |                               |  |   | Initial count number                       | number | ASCII  | less than 5       | Unsigned decimal, blank means no data  | -   |
|                                       |                               |  |   | status                                     | letter | ASCII  | One               | "I": low reliability data, "c": data after caliper function, "e": error data. Blank means no data. | -   |
| [OP_LENS_WAVE_FMn_R]<br>n=0 - 9<br>※2 | Lens waveform condition       |  | 4 | thinning                                   | number | ASCII  | less than 4       | Unsigned decimal, blank means no data(without range)   | -   |
|                                       |                               |  |   | number of waveform data (horizontal axis ) | number | ASCII  | less than 5       | Unsigned integer, blank means no data(1280)  | -   |
|                                       |                               |  |   | waveform starting point                    | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|                                       |                               |  |   | waveform height                            | number | binary | Less and 4200byte | binary, no data is displayed as 0x00(without range)  | -   |
| [OP_CORNEA_N_R]                       | Cornea thickness              |  | 5 | number of data                             | number | ASCII  | less than 3       | Unsigned integer(0 - 10)   | -   |
|                                       |                               |  |   | average                                    | number | ASCII  | less than 5       | Unsigned integer, blank means no data(200 - 1200)  | um  |

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|  |   |  |   |  |        |        |                      |  |     |
|--|---|--|---|--|--------|--------|----------------------|--|-----|
|  | number of data  |  |   | Waveform selection<br>No. for IOL<br>calculation | number | ASCII  | less than 2          | Unsigned integer(0 - 9, I, A)<br>0 - 9:Normal waveform I:Integral waveform A:average               | -   |
|  |   |  |   | Waveform No.                                     | number | ASCII  | less than 2          | Unsigned integer(0 - 9, I)<br>0 - 9:Normal waveform I:Integral waveform                            | -   |
|  |   |  |   | Standard Deviation                               | number | ASCII  | less than 4          | Unsigned decimal, blank means no data(0 - 100)   | um  |
| [OP_CORNEA<br>n_R]<br>n=0 - 9                  | cornea<br>thickness                                   |  | 7 | Measurement result                               | number | ASCII  | less than 5          | Unsigned integer, blank means no data(200 - 1200)  | um  |
|  |   |  |   | Measurement<br>position                          | number | ASCII  | less than 5          | Unsigned integer, blank means no data(0 - 4199)  | dot |
|  |   |  |   | Initial measurement<br>result                    | number | ASCII  | less than 5          | Unsigned integer, blank means no data(200 - 1200)  | um  |
|  |   |  |   | Initial measurement<br>position                  | number | ASCII  | less than 5          | Unsigned integer, blank means no data(0 - 4199)  | dot |
|  |   |  |   | SNR  | number | ASCII  | less than 6          | Unsigned decimal, blank means no data(0.0 - 999.0)   | -   |
|  |   |  |   | Initial count number                             | number | ASCII  | less than 5          | Unsigned decimal, blank means no data(100 - 2000)  | -   |
|  |   |  |   | status   | letter | ASCII  | One                  | "I": low reliability data, "c": data after caliper function, "e": error data. Blank means no data. | -   |
|  |   |  |   |  |        |        |                      |  |     |
| [OP_CORNEA<br>_WAVE_FM<br>n_R]<br>n=0 - 9<br>※ | cornea<br>waveform<br>condition                       |  | 4 | thinning   | number | ASCII  | Less than 4          | Unsigned decimal, blank means no data(without range)   | -   |
|  |   |  |   | number of waveform<br>data<br>(horizontal axis ) | number | ASCII  | less than 5          | Unsigned integer, blank means no data(1280)  | -   |
|  |   |  |   | waveform starting<br>point                       | number | ASCII  | less than 5          | Unsigned integer, blank means no data(0 - 4199)  | dot |
|  |   |  |   | waveform height                                  | number | binary | Less and<br>4200byte | binary, no data is displayed as 0x00(without range)  | -   |
| [OP_AXIAL_IT<br>G_R]                           | axial length<br>by Integral<br>waveform               |  | 7 | Measurement result                               | number | ASCII  | less than 6          | Unsigned decimal, blank means no data(14.00 - 40.00)   | mm  |
|  |   |  |   | Measurement<br>position                          | number | ASCII  | less than 5          | Unsigned integer, blank means no data(0 - 4199)  | dot |
|  |   |  |   | Initial measurement<br>result                    | number | ASCII  | less than 6          | Unsigned decimal, blank means no data(14.00 - 40.00)   | mm  |
|  |   |  |   | Initial measurement<br>position                  | number | ASCII  | less than 5          | Unsigned integer, blank means no data(0 - 4199)  | dot |
|  |   |  |   | SNR  | number | ASCII  | less than 6          | Unsigned decimal, blank means no data(0.0 - 999.0)   | -   |
|  |   |  |   | Initial count number                             | number | ASCII  | less than 5          | Unsigned decimal, blank means no data(900 - 4199)  | -   |
|  |   |  |   | status   | letter | ASCII  | One                  | "I": low reliability data, "c": data after caliper function, "e": error data. Blank means no data. | -   |
| [OP_AXIAL_W<br>AVE_ITG_R]<br>※                 | Integral<br>waveform<br>condition for<br>axial length |  | 4 | thinning   | number | ASCII  | less than 4          | Unsigned decimal, blank means no data(without range)   | -   |
|  |   |  |   | number of waveform<br>data<br>(horizontal axis ) | number | ASCII  | less than 5          | Unsigned integer, blank means no data(640)   | -   |
|  |   |  |   | waveform starting<br>point                       | number | ASCII  | less than 5          | Unsigned integer, blank means no data(0 - 4199)  | dot |
|  |   |  |   | waveform height                                  | number | binary | Less and<br>4200byte | binary, no data is displayed as 0x00(without range)  | -   |

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|                               |   |  |    |  |        |       |   |   |    |
|-------------------------------|---|--|----|--|--------|-------|---|---|----|
| [OP_AXIAL_O<br>PT_R]          | AXIAL value by<br>OptLength<br>Mode                 |  | 10 | Measurement Value<br>of Opt Length             | number | ASCII | 5 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_O<br>PT_AVG_R]      | Avg Axial by<br>OptLength<br>Mode                   |  | 1  | Average value of<br>OptLength                  | number | ASCII | 5 | Unsigned decimal, blank means no data(14.00~40.00)  | mm |
| [OP_AXIAL_O<br>PT_ITG_R]      | Integral Axial of<br>OptLength<br>Mode              |  | 1  | Integral Value of<br>OptLength Mode            | number | ASCII | 5 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_O<br>PT_SD_R]       | Standard<br>Deviation Axial<br>of OptLength<br>Mode |  | 1  | Standard Deviation<br>of OptLength             | number | ASCII | 4 | Unsigned decimal, blank means no data (0.00~1.00)   | mm |
| [OP_AXIAL_C<br>ON_R]          | Axial value by<br>Contact mode                      |  | 10 | Measurement Value<br>of Contact                | number | ASCII | 5 | Unsigned decimal, blank means no data(14.00~40.00)  | mm |
| [OP_AXIAL_C<br>ON_AVG_R]      | Avg Axial by<br>Contact Mode                        |  | 1  | Average value of<br>Contact                    | number | ASCII | 5 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_C<br>ON_ITG_R]      | Integral Axial of<br>Contact Mode                   |  | 1  | Integral Value of<br>Contact                   | number | ASCII | 5 | Unsigned decimal, blank means no data(14.00~40.00)  | mm |
| [OP_AXIAL_C<br>ON_SD_R]       | Standard<br>Deviation Axial<br>of Contact<br>Mode   |  | 1  | Standard Deviation<br>of Contact               | number | ASCII | 4 | Unsigned decimal, blank means no data (0.00~1.00)   | mm |
| [OP_AXIAL_I<br>MM_R]          | AXIAL value by<br>Immersion<br>Mode                 |  | 10 | Measurement Value<br>of Immersion              | number | ASCII | 5 | Unsigned decimal, blank means no data(14.00~40.00)  | mm |
| [OP_AXIAL_I<br>MM_AVG_R]      | Avg Axial by<br>Immersion<br>Mode                   |  | 1  | Average value of<br>Immersion                  | number | ASCII | 5 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_I<br>MM_ITG_R]      | Integral Axial of<br>Immersion<br>Mode              |  | 1  | Integral Value of<br>Immersion                 | number | ASCII | 5 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_I<br>MM_SD_R]       | Standard<br>Deviation Axial<br>of Immersion<br>Mode |  | 1  | Standard Deviation<br>of Immersion             | number | ASCII | 5 | Unsigned decimal, blank means no data(0.00~1.00)    | mm |
| [OP_AXIAL_U<br>ADJ_R]         | AXIAL value by<br>I User-Adj<br>(Contact2)          |  | 10 | Measurement Value<br>of User-Adj<br>(Contact2) | number | ASCII | 5 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_<br>UADJ_AVG_R<br>] | Avg Axial by<br>User-Adj<br>(Contact2)              |  | 1  | Average value of<br>User-Adj (Contact2)        | number | ASCII | 5 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_<br>UADJ_ITG_R]     | Integral Axial of<br>User-Adj<br>(Contact2)         |  | 1  | Integral Value of<br>User-Adj (Contact2)       | number | ASCII | 5 | Unsigned decimal, blank means no data(14.00~40.00)  | mm |

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|                          |   |   |   |   |        |       |              |  |    |
|--------------------------|---|---|---|---|--------|-------|--------------|--|----|
| [OP_AXIAL_UADJ_SD_R]     | Standard Deviation Axial of User-Adj (Contact2)                     |   | 1 | Standard Deviation of User-Adj (Contact2)                           | number | ASCII | 4            | Unsigned decimal, blank means no data (0.00~1.00)  | mm |
| [OP_AXIAL_UADJ_OFFSET_R] | Offset value by I User-Adj (Contact2)                               |   | 1 | Offset value by I User-Adj (Contact2)                               | number | ASCII | 4            | Unsigned decimal, blank means no data (0.01~0.15)  | mm |
| [OP_CCT_US_R]            | Average corneal thickness of correcting the value of the ultrasound |   | 2 | Average corneal thickness of correcting the value of the ultrasound | number | ASCII | 4            | Unsigned decimal, blank means no data (200~125)  | um |
|                          |   |   |   | Offset value for correcting   | number | ASCII | 3            | Unsigned decimal, blank means no data (-99~+99)  | um |
| [OP_ETYP_L]              | Optical measurement eye type  |   | 1 | Eye type  | letter | ASCII | less than 14 | Show one of (Phakic/Aphakic/ PMMA/Silicone/ Acrylic/SO_Phakic/ SO_Aphakic/ SO_PMMA/ SO_Silicone/ SO_Acrylic) , blank means no data | -  |
| [OP_ATMN_L]              | measurement method  |   | 1 | measurement method  | letter | ASCII | less than 7  | Auto/Manual, blank means no data   | -  |
| [OP_MPNT_L]              | Measurement lens position   |   | 1 | Measurement lens position   | letter | ASCII | less than 9  | Center/Cataract, blank means no data   |    |
| [OP_CONV_L]              | Measurement result conversion method                                |   | 1 | conversion method   | letter | ASCII | less than 10 | Show one of Contact/Immersion/ OptLength, blank means no data  | -  |
| [OP_REF_L]               | refractive index  |   | 7 | Axial length (avg.)   | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.3000 - 1.4000)   | -  |
|                          |   |   |   | ACD (avg.)  | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.3000 - 1.4000)   | -  |
|                          |   |   |   | Lens  | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.3000 - 1.4000)   | -  |
|                          |   |   |   | vitreous  | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.3000 - 1.4000)   | -  |
|                          |   |   |   | cornea  | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.3000 - 1.4000)   | -  |
|                          |   |   |   | IOL thickness   | number | ASCII | less than 7  | Unsigned decimal, blank means no data(0.100 - 4.000)   | -  |
|                          |   |   |   | IOL refractive index  | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.3000 - 1.4000)   | -  |
| [OP_IOL_PMA_L]           | thickness and refractive index of PMMA IOL                          | - | 2 | IOL thickness   | number | ASCII | less than 6  | Unsigned decimal, blank means no data(0.100 - 4.000)   | mm |
|                          |   |   |   | IOL refractive index  | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.0000 - 1.9999)   | -  |
| [OP_IOL_SILICONE_L]      | thickness and refractive index of SILICONE IOL                      | - | 2 | IOL thickness   | number | ASCII | less than 6  | Unsigned decimal, blank means no data(0.100 - 4.000)   | mm |
|                          |   |   |   | IOL refractive index  | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.0000 - 1.9999)   | -  |
| [OP_IOL_ACRYLIC_L]       | thickness and refractive index of ACRYLIC IOL                       | - | 2 | IOL thickness   | number | ASCII | less than 6  | Unsigned decimal, blank means no data(0.100 - 4.000)   | mm |
|                          |   |   |   | IOL refractive index  | number | ASCII | less than 7  | Unsigned decimal, blank means no data(1.0000 - 1.9999)   | -  |



**DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)**

|                                       |                                 |                             |   |  |  |        |                   |   |   |     |    |
|---------------------------------------|---------------------------------|-----------------------------|---|--|--|--------|-------------------|---|---|-----|----|
|                                       | [OP_AXIAL_N_L]                  | Number of axial length data |   | 5  | number of data                             | number | ASCII             | less than 3   | Unsigned integer(0 - 11)  |     | -  |
|                                       |                                 |                             |   |  | average                                    | number | ASCII             | less than 6   | Unsigned decimal, blank means no data(14.00 - 40.00)  |     | mm |
|                                       |                                 |                             |   |  | Waveform selection No. for IOL calculation | number | ASCII             | less than 2   | Unsigned integer(0 - 9, I, A)<br>0 - 9:Normal waveform I:Integral waveform A:average  |     | -  |
|                                       |                                 |                             |   |  | Waveform No.                               | number | ASCII             | less than 2   | Unsigned integer(0 - 9, I)<br>0 - 9:Normal waveform I:Integral waveform (When [A: average] is selected in “Waveform selection No. for IOL”, different number is shown in this form.。) |     | -  |
|                                       |                                 |                             |   |  | Standard Deviation                         | number | ASCII             | less than 5   | Unsigned decimal, blank means no data(0.00 - 1.00)  |     | mm |
| [OP_AXIALn_L]<br>n=0 - 9              | axial length                    |                             | 7 | Measurement result                         | number                                     | ASCII  | less than 6       | Unsigned decimal, blank means no data(14.00 - 40.00)  |   | mm  |    |
|                                       |                                 |                             |   | Measurement position                       | number                                     | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)   |   | dot |    |
|                                       |                                 |                             |   | Initial measurement result                 | number                                     | ASCII  | less than 6       | Unsigned decimal, blank means no data(14.00 - 40.00)  |   | mm  |    |
|                                       |                                 |                             |   | Initial measurement position               | number                                     | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)   |   | dot |    |
|                                       |                                 |                             |   | SNR  | number                                     | ASCII  | less than 6       | Unsigned decimal, blank means no data(0.0 - 999.0)  |   | -   |    |
|                                       |                                 |                             |   | Initial count number                       | number                                     | ASCII  | less than 5       | Unsigned decimal, blank means no data(900 - 4199)   |   | -   |    |
|                                       |                                 |                             |   | status                                     | letter                                     | ASCII  | 1                 | “!”: low reliability data, “c”: data after caliper function, “e”: error data. Blank means no data.  |   | -   |    |
| [OP_AXIAL_WAVE_FMn_L]<br>n=0 - 9<br>※ | axial length waveform condition |                             | 4 | thinning                                   | number                                     | ASCII  | less than 4       | Unsigned decimal, blank means no data(without range)  |   | -   |    |
|                                       |                                 |                             |   | number of waveform data (horizontal axis ) | number                                     | ASCII  | less than 5       | Unsigned integer, blank means no data(640)  |   | -   |    |
|                                       |                                 |                             |   | waveform starting point                    | number                                     | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)   |   | dot |    |
|                                       |                                 |                             |   | waveform height                            | number                                     | binary | less and 4200byte | binary, no data is displayed as 0x00(without range)   |   | -   |    |
| [OP_ACD_N_L]                          | ACD number of data              |                             | 5 | number of data                             | number                                     | ASCII  | less than 3       | Unsigned integer(0 - 11)  |   | -   |    |
|                                       |                                 |                             |   | average                                    | number                                     | ASCII  | less than 5       | Unsigned decimal, blank means no data(1.50 - 7.00)  |   | mm  |    |
|                                       |                                 |                             |   | Waveform selection No. for IOL calculation | number                                     | ASCII  | less than 3       | Unsigned integer(0 - 9, I, A)<br>0 - 9:Normal waveform I:Integral waveform A:average  |   | -   |    |
|                                       |                                 |                             |   | Waveform No.                               | number                                     | ASCII  | less than 3       | Unsigned integer(0 - 9, I)<br>0 - 9:Normal waveform I:Integral waveform (When [A: average] is selected in “Waveform selection No. for IOL”, different number is shown in this form.。) |   | -   |    |
|                                       |                                 |                             |   | Standard Deviation                         | number                                     | ASCII  | less than 5       | Unsigned decimal, blank means no data(0.00 - 1.00)  |   | mm  |    |
| [OP_ACDn_L]                           | ACD                             |                             | 7 | Measurement result                         | number                                     | ASCII  | less than 5       | Unsigned decimal, blank means no data(1.50 - 7.00)  |   | mm  |    |

**DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)**

|                                      |                               |  |   |  |        |        |                   |  |     |
|--------------------------------------|-------------------------------|--|---|--|--------|--------|-------------------|--|-----|
| n=0 - 9                              |                               |  |   | Measurement position                       | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|                                      |                               |  |   | Initial measurement result                 | number | ASCII  | less than 5       | Unsigned decimal, blank means no data(1.50 - 7.00)   | mm  |
|                                      |                               |  |   | Initial measurement position               | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|                                      |                               |  |   | SNR  | number | ASCII  | less than 6       | Unsigned decimal, blank means no data(0.0 - 999.0)   | -   |
|                                      |                               |  |   | Initial count number                       | number | ASCII  | less than 5       | Unsigned decimal, blank means no data(50 - 2000)   | -   |
|                                      |                               |  |   | status                                     | letter | ASCII  | 1                 | "!": low reliability data, "c": data after caliper function, "e": error data. Blank means no data. | -   |
| [OP_ACD_WAVE_FMn_L]<br>n=0 - 9<br>※  | ACD waveform condition        |  | 4 | thinning                                   | number | ASCII  | Less than 4       | Unsigned decimal, blank means no data(without range)   | -   |
|                                      |                               |  |   | number of waveform data (horizontal axis ) | number | ASCII  | less than 5       | Unsigned integer, blank means no data(640)   | -   |
|                                      |                               |  |   | waveform starting point                    | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|                                      |                               |  |   | waveform height                            | number | binary | less and 4200byte | binary, no data is displayed as 0x00(without range)  | -   |
| [OP_LENS_N_L]                        | Lens thickness number of data |  | 5 | number of data                             | number | ASCII  | less than 3       | Unsigned integer(0 - 10)   | -   |
|                                      |                               |  |   | average                                    | number | ASCII  | less than 5       | Unsigned decimal, blank means no data  | mm  |
|                                      |                               |  |   | Waveform selection No. for IOL calculation | number | ASCII  | less than 2       | Unsigned integer(0 - 9, I, A)<br>0 - 9:Normal waveform I:Integral waveform A:average               | -   |
|                                      |                               |  |   | Waveform No.                               | number | ASCII  | less than 2       | Unsigned integer(0 - 9, I)<br>0 - 9:Normal waveform I:Integral waveform                            | -   |
|                                      |                               |  |   | Standard Deviation                         | number | ASCII  | less than 5       | Unsigned decimal, blank means no data(0.00 - 1.00)   | mm  |
| [OP_LENSn_L]<br>n=0 - 9              | Lens thickness                |  | 7 | Lens thickness                             | number | ASCII  | less than 5       | Unsigned decimal, blank means no data  | mm  |
|                                      |                               |  |   | Measurement position                       | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|                                      |                               |  |   | Initial measurement result                 | number | ASCII  | less than 5       | Unsigned decimal, blank means no data  | mm  |
|                                      |                               |  |   | Initial measurement position               | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|                                      |                               |  |   | SNR  | number | ASCII  | less than 6       | Unsigned decimal, blank means no data(0.0 - 999.0)   | -   |
|                                      |                               |  |   | Initial count number                       | number | ASCII  | less than 5       | Unsigned decimal, blank means no data  | -   |
|                                      |                               |  |   | status                                     | letter | ASCII  | 1                 | "!": low reliability data, "c": data after caliper function, "e": error data. Blank means no data. | -   |
| [OP_LENS_WAVE_FMn_L]<br>n=0 - 9<br>※ | Lens waveform condition       |  | 4 | thinning                                   | number | ASCII  | less than 4       | Unsigned decimal, blank means no data(without range)   | -   |
|                                      |                               |  |   | number of waveform data (horizontal axis ) | number | ASCII  | less than 5       | Unsigned integer, blank means no data(1280)  | -   |
|                                      |                               |  |   | waveform starting point                    | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|                                      |                               |  |   | waveform height                            | number | binary | less and 4200byte | binary, no data is displayed as 0x00(without range)  | -   |

### DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)

|   |  |  |   |  |        |        |                   |  |     |
|---|--|--|---|--|--------|--------|-------------------|--|-----|
| [OP_CORNEA_N_L]                         | cornea thickness<br>number of data           |  | 5 | number of data                             | number | ASCII  | less than 3       | Unsigned integer(0 - 10)   | -   |
|   |  |  |   | average                                    | number | ASCII  | less than 5       | Unsigned integer, blank means no data(200 - 1200)  | um  |
|   |  |  |   | Waveform selection No. for IOL calculation | number | ASCII  | less than 2       | Unsigned integer(0 - 9, I, A)<br>0 - 9:Normal waveform I:Integral waveform A:average               | -   |
|   |  |  |   | Waveform No.                               | number | ASCII  | less than 2       | Unsigned integer(0 - 9, I)<br>0 - 9:Normal waveform I:Integral waveform                            | -   |
|   |  |  |   | Standard Deviation                         | number | ASCII  | less than 4       | Unsigned decimal, blank means no data(0 - 100)   | um  |
| [OP_CORNEA_n_L]<br>n=0 - 9              | cornea thickness                             |  | 7 | Measurement result                         | number | ASCII  | less than 5       | Unsigned integer, blank means no data(200 - 1200)  | um  |
|   |  |  |   | Measurement position                       | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|   |  |  |   | Initial measurement result                 | number | ASCII  | less than 5       | Unsigned integer, blank means no data(200 - 1200)  | um  |
|   |  |  |   | Initial measurement position               | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|   |  |  |   | SNR  | number | ASCII  | less than 6       | Unsigned decimal, blank means no data(0.0 - 999.0)   | -   |
|   |  |  |   | Initial count number                       | number | ASCII  | less than 5       | Unsigned decimal, blank means no data(100 - 2000)  | -   |
|   |  |  |   | status                                     | letter | ASCII  | 1                 | "I": low reliability data, "c": data after caliper function, "e": error data. Blank means no data. | -   |
| [OP_CORNEA_WAVE_FM_n_L]<br>n=0 - 9<br>※ | cornea waveform condition                    |  | 4 | thinning                                   | number | ASCII  | less than 4       | Unsigned decimal, blank means no data(without range)   | -   |
|   |  |  |   | number of waveform data (horizontal axis ) | number | ASCII  | less than 5       | Unsigned integer, blank means no data(1280)  | -   |
|   |  |  |   | waveform starting point                    | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|   |  |  |   | waveform height                            | number | binary | less and 4200byte | binary, no data is displayed as 0x00(without range)  | -   |
| [OP_AXIAL_ITG_L]                        | axial length by Integral waveform            |  | 7 | Measurement result                         | number | ASCII  | less than 6       | Unsigned decimal, blank means no data(14.00 - 40.00)   | mm  |
|   |  |  |   | Measurement position                       | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|   |  |  |   | Initial measurement result                 | number | ASCII  | less than 6       | Unsigned decimal, blank means no data(14.00 - 40.00)   | mm  |
|   |  |  |   | Initial measurement position               | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|   |  |  |   | SNR  | number | ASCII  | less than 6       | Unsigned decimal, blank means no data(0.0 - 999.0)   | -   |
|   |  |  |   | Initial count number                       | number | ASCII  | less than 5       | Unsigned decimal, blank means no data(900 - 4199)  | -   |
|   |  |  |   | status                                     | letter | ASCII  | 1                 | "I": low reliability data, "c": data after caliper function, "e": error data. Blank means no data. | -   |
| [OP_AXIAL_WAVE_ITG_L]<br>※              | Integral waveform condition for axial length |  | 4 | thinning                                   | number | ASCII  | less than 4       | Unsigned decimal, blank means no data(without range)   | -   |
|   |  |  |   | number of waveform data (horizontal axis ) | number | ASCII  | less than 5       | Unsigned integer, blank means no data(640)   | -   |
|   |  |  |   | waveform starting point                    | number | ASCII  | less than 5       | Unsigned integer, blank means no data(0 - 4199)  | dot |
|   |  |  |   | waveform height                            | number | binary | less and 4200byte | binary, no data is displayed as 0x00(without range)  | -   |

**DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)**

|                           |   |  |    |  |        |       |             |   |    |
|---------------------------|---|--|----|--|--------|-------|-------------|---|----|
| [OP_AXIAL_O<br>PT_L]      | AXIAL value by<br>OptLength<br>Mode                 |  | 10 | Measurement Value<br>of Opt Length             | number | ASCII | less than 6 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_O<br>PT_AVG_L]  | Avg Axial by<br>OptLength<br>Mode                   |  | 1  | Average value of<br>OptLength                  | number | ASCII | less than 6 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_O<br>PT_ITG_L]  | Integral Axial of<br>OptLength<br>Mode              |  | 1  | Integral Value of<br>OptLength Mode            | number | ASCII | less than 6 | Unsigned decimal, blank means no data(14.00~40.00)  | mm |
| [OP_AXIAL_O<br>PT_SD_L]   | Standard<br>Deviation Axial<br>of OptLength<br>Mode |  | 1  | Standard Deviation<br>of OptLength             | number | ASCII | less than 5 | Unsigned decimal, blank means no data (0.00~1.00)   | mm |
| [OP_AXIAL_C<br>ON_L]      | Axial value by<br>Contact mode                      |  | 10 | Measurement Value<br>of Contact                | number | ASCII | less than 6 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_C<br>ON_AVG_L]  | Avg Axial by<br>Contact Mode                        |  | 1  | Average value of<br>Contact                    | number | ASCII | less than 6 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_C<br>ON_ITG_L]  | Integral Axial of<br>Contact Mode                   |  | 1  | Integral Value of<br>Contact                   | number | ASCII | less than 6 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_C<br>ON_SD_L]   | Standard<br>Deviation Axial<br>of Contact<br>Mode   |  | 1  | Standard Deviation<br>of Contact               | number | ASCII | less than 5 | Unsigned decimal, blank means no data (0.00~1.00)   | mm |
| [OP_AXIAL_I<br>MM_L]      | AXIAL value by<br>Immersion<br>Mode                 |  | 10 | Measurement Value<br>of Immersion              | number | ASCII | less than 6 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_I<br>MM_AVG_L]  | Avg Axial by<br>Immersion<br>Mode                   |  | 1  | Average value of<br>Immersion                  | number | ASCII | less than 6 | Unsigned decimal, blank means no data(14.00~40.00)  | mm |
| [OP_AXIAL_I<br>MM_ITG_L]  | Integral Axial of<br>Immersion<br>Mode              |  | 1  | Integral Value of<br>Immersion                 | number | ASCII | less than 6 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_I<br>MM_SD_L]   | Standard<br>Deviation Axial<br>of Immersion<br>Mode |  | 1  | Standard Deviation<br>of Immersion             | number | ASCII | less than 6 | Unsigned decimal, blank means no data (0.00~1.00)   | mm |
| [OP_AXIAL_U<br>ADJ_L]     | AXIAL value by<br>I User-Adj<br>(Contact2)          |  | 10 | Measurement Value<br>of User-Adj<br>(Contact2) | number | ASCII | less than 6 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_U<br>ADJ_AVG_L] | Avg Axial by<br>User-Adj<br>(Contact2)              |  | 1  | Average value of<br>User-Adj (Contact2)        | number | ASCII | less than 6 | Unsigned decimal, blank means no data (14.00~40.00) | mm |
| [OP_AXIAL_U<br>ADJ_ITG_L] | Integral Axial of<br>User-Adj<br>(Contact2)         |  | 1  | Integral Value of<br>User-Adj (Contact2)       | number | ASCII | less than 6 | Unsigned decimal, blank means no data (14.00~40.00) | mm |

### DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)

|   |  |   |   |  |        |       |              |  |  |
|---|--|---|---|--|--------|-------|--------------|--|--|
| [OP_AXIAL_U<br>ADJ_SD_L]                        | Standard<br>Deviation Axial<br>of User-Adj<br>(Contact2)                           |   | 1 | Standard Deviation<br>of User-Adj<br>(Contact2)                              | number | ASCII | less than 5  | Unsigned decimal, blank means no data (0. 00~1. 00)  | mm   |
| [OP_AXIAL_U<br>ADJ_OFFSET<br>_L]                | Offset value by<br>I User-Adj<br>(Contact2)  |   | 1 | Offset value by I<br>User-Adj (Contact2)                                     | number | ASCII | less than 5  | Unsigned decimal, blank means no data (0.01~0.15)  | mm   |
| [OP_CCT_US<br>_L]                               | Average<br>corneal<br>thickness of<br>correcting the<br>value of the<br>ultrasound |   | 2 | Average corneal<br>thickness of<br>correcting the value<br>of the ultrasound | number | ASCII | less than 5  | Unsigned decimal, blank means no data (200~1225)   | um   |
|   |  |   |   | Offset value for<br>correcting   | number | ASCII | less than 4  | Unsigned decimal, blank means no data (-99~ +99)   | um   |
| IOL power calculation data (Calculating device) |  |   |   |  |        |       |              |  |  |
| [KI_R]  | Keratometric<br>Index  | - | 1 | Keratometric Index   | number | ASCII | less than 10 | Unsigned decimal, blank means no data  |  |
| [K12_R]   | Corneal<br>refractive<br>power   | - | 2 | K1   | number | ASCII | less than 6  | Unsigned decimal, blank means no data  |  |
|   |  |   |   | K2   | number | ASCII | less than 6  | Unsigned decimal, blank means no data  |  |
| [INF_R]   | representative<br>value  | - | 6 | Axial length   | number | ASCII | less than 6  | Unsigned decimal, blank means no data  | Only<br>when it<br>is<br>output<br>via<br>AL400<br>0 |
|   |  |   |   | ACD  | number | ASCII | less than 6  | Unsigned decimal, blank means no data  |  |
|   |  |   |   | Lens thickness   | number | ASCII | less than 6  | Unsigned decimal, blank means no data  |  |
|   |  |   |   | confidence<br>coefficient  | number | ASCII | less than 6  | Unsigned decimal, blank means no data  |  |
|   |  |   |   | Gain   | number | ASCII | less than 6  | Unsigned decimal, blank means no data  |  |
|   |  |   |   | status   | number | ASCII | less than 6  | Longest value: L、Shortest Value S、blank means no data  |  |
| [POSTK_CH_<br>R]<br>[POSTK_CH_<br>n_R]<br>(n=2) | POSTK<br>(Clinical<br>History)   | - | 8 | Post refractive<br>surgery K   | number | ASCII | less than 7  | Unsigned decimal, blank means no data  | D, mm  |
|   |  |   |   | Pre refractive<br>surgery K1   | number | ASCII | less than 7  | Unsigned decimal, blank means no data  | D, mm  |
|   |  |   |   | Pre refractive<br>surgery K2   | number | ASCII | less than 7  | Unsigned decimal, blank means no data  | D, mm  |
|   |  |   |   | Pre refractive<br>surgery spherical<br>diopter power                         | number | ASCII | less than 7  | Unsigned decimal, blank means no data<br>When K value of post refractive surgery was inputted, it will be blank. |  |
|   |  |   |   | Pre refractive<br>surgery astigmatism  | number | ASCII | less than 7  | Unsigned decimal, blank means no data<br>When K value of post refractive surgery was inputted, it will be blank. |  |
|   |  |   |   | Post refractive<br>surgery spherical<br>diopter power                        | number | ASCII | less than 7  | Unsigned decimal, blank means no data<br>When K value of post refractive surgery was inputted, it will be blank. |  |
|   |  |   |   | Post refractive<br>surgery astigmatism                                       | number | ASCII | less than 7  | Unsigned decimal, blank means no data<br>When K value of post refractive surgery was inputted, it will be blank. |  |
|   |  |   |   | Vertex distance<br>(C.H.M)   | number | ASCII | less than 7  | Unsigned decimal, blank means no data  |  |

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|  |                               |        |    |   |        |       |              |  |  |
|--|-------------------------------|--------|----|---|--------|-------|--------------|--|--|
| [DREF_R]<br>[DREF_n_R]<br>*(n=2)       | Desired refractive power      | -      | 1  | Desired refractive power                  | number | ASCII | less than 7  | Signed decimal, blank means no data  |  |
| [PRE_REF_R]<br>[PRE_REF_n_R]<br>*(n=2) | Pre-surgery refractive power  | -      | 1  | Pre-surgery refractive power              | number | ASCII | less than 7  | Signed decimal, blank means no data  |  |
| [IOL_RES_R]<br>[IOL_RES_n_R]<br>*(n=2) | IOL calculation result        | Max 16 | 9  | IOL Formula                               | letter | ASCII | less than 16 | Letters showing each IOL formula<br>See ※5 Letter of each formula below  |  |
|  |                               |        |    | IOL Manufacturer name                     | letter | ASCII | less than 11 | Manufacturer name used for IOL calculation, blank means no data  |  |
|  |                               |        |    | IOL Model name                            | letter | ASCII | less than 11 | Model name used for IOL calculation, blank means no data   |  |
|  |                               |        |    | Lens constant 1                           | number | ASCII | less than 7  | Signed decimal, blank means no data<br>Lens constant for IOL formula<br>See ※6 Range and lens constants that are used for each formula below   |  |
|  |                               |        |    | Lens constant 2                           | number | ASCII | less than 7  | Signed decimal, blank means no data<br>Lens constant for IOL formula<br>See ※6 Range and lens constants that are used for each formula below   |  |
|  |                               |        |    | Lens constant 3                           | number | ASCII | less than 7  | Signed decimal, blank means no data<br>Lens constant for IOL formula<br>See ※6 Range and lens constants that are used for each formula below   |  |
|  |                               |        |    | Calculation result                        | number | ASCII | less than 7  | Signed decimal, blank means no data<br>All IOL calculated results are sent.<br>Calculation result : IOL power calculated by IOL formula  |  |
|  |                               |        |    | IOL power                                 | number | ASCII | less than 7  | Signed decimal, blank means no data<br>All IOL calculated results are sent.<br>The numerical value of the multiple of 0.5 nearest to a calculation result (Center value in IOL power list) |  |
| [IOL_RES_AR]<br>[RAY_IOL_R]            | IOL Calculation result column | Max 16 | 10 | (First column) column number              | number | ASCII | less than 7  | Column number of IOL calculation result.   |  |
|  |                               |        |    | (Second column) IOL power                 | number | ASCII | less than 7  | IOL power  |  |
| [IOL_RES_AR]<br>[RAY_REF_R]            | IOL Calculation result column | Max 16 | 10 | (First column) column number              | number | ASCII | less than 7  | Column number of IOL calculation result.   |  |
|  |                               |        |    | (Second column) Refraction power expected | number | ASCII | less than 7  | Refraction power expected  |  |
| [IMP_IOL_R]                            | Implanted IOL                 | -      | 3  | Manufacturer of Implanted IOL             | letter | ASCII | less than 11 | Manufacturer of Implanted IOL, blank means no data   |  |
|  |                               |        |    | Model name of Implanted IOL               | letter | ASCII | less than 11 | Model name of Implanted IOL, blank means no data   |  |
|  |                               |        |    | Power of Implanted IOL                    | number | ASCII | less than 7  | Power of Implanted IOL, Signed decimal, blank means no data  |  |

**DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)**

|                                       |  |        |   |   |        |       |              |  |                                    |
|---------------------------------------|--|--------|---|---|--------|-------|--------------|--|------------------------------------|
| [PO_REF_R]                            | Post-surgery refractive power                | -      | 1 | Post-surgery refractive power                   | number | ASCII | less than 7  | Signed decimal, blank means no data  |                                    |
| [IOL_OPTION_R]                        | Input Options of IOL Calculation (Right eye) | -      | 2 | WTW   | Num    | ASCII | 5            | Signed decimal   | mm                                 |
|                                       |  |        |   | WTW Caution                                     | Num    | ASCII | 1            | Unsigned integer<br>Warning 1 Without warning:0  |                                    |
| [KI_L]                                | Keratometric Index                           | -      | 1 | Keratometric Index                              | number | ASCII | less than 10 | Unsigned decimal, blank means no data  |                                    |
| [K12_L]                               | Corneal refractive power                     | -      | 2 | K1  | number | ASCII | less than 6  | Unsigned decimal, blank means no data  |                                    |
|                                       |  |        |   | K2  | number | ASCII | less than 6  | Unsigned decimal, blank means no data  |                                    |
| [INF_L]                               | representative value                         | -      | 6 | Axial length                                    | number | ASCII | less than 6  | Unsigned decimal, blank means no data  | Only when it is output via AL400 0 |
|                                       |  |        |   | ACD   | number | ASCII | less than 6  | Unsigned decimal, blank means no data  |                                    |
|                                       |  |        |   | Lens thickness                                  | number | ASCII | less than 6  | Unsigned decimal, blank means no data  |                                    |
|                                       |  |        |   | confidence coefficient                          | number | ASCII | less than 6  | Unsigned decimal, blank means no data  |                                    |
|                                       |  |        |   | Gain  | number | ASCII | less than 6  | Unsigned decimal, blank means no data  |                                    |
|                                       |  |        |   | status  | number | ASCII | less than 6  | Longest value: L, Shortest Value S, blank means no data  |                                    |
| [POSTK_CH_L]                          | POSTK (Clinical History)                     | -      | 8 | Post refractive surgery K                       | number | ASCII | less than 7  | Unsigned decimal, blank means no data  | D, mm                              |
|                                       |  |        |   | Pre refractive surgery K1                       | number | ASCII | less than 7  | Unsigned decimal, blank means no data  | D, mm                              |
|                                       |  |        |   | Pre refractive surgery K2                       | number | ASCII | less than 7  | Unsigned decimal, blank means no data  | D, mm                              |
|                                       |  |        |   | Pre refractive surgery spherical diopter power  | number | ASCII | less than 7  | Unsigned decimal, blank means no data<br>When K value of post refractive surgery was inputted, it will be blank. |                                    |
|                                       |  |        |   | Pre refractive surgery astigmatism              | number | ASCII | less than 7  | Unsigned decimal, blank means no data<br>When K value of post refractive surgery was inputted, it will be blank. |                                    |
|                                       |  |        |   | Post refractive surgery spherical diopter power | number | ASCII | less than 7  | Unsigned decimal, blank means no data<br>When K value of post refractive surgery was inputted, it will be blank. |                                    |
|                                       |  |        |   | Post refractive surgery astigmatism             | number | ASCII | less than 7  | Unsigned decimal, blank means no data<br>When K value of post refractive surgery was inputted, it will be blank. |                                    |
|                                       |  |        |   | Vertex distance (C.H.M)                         | number | ASCII | less than 7  | Unsigned decimal, blank means no data  |                                    |
| [DREF_L]                              | Desired refractive power                     | -      | 1 | Desired refractive power                        | number | ASCII | less than 7  | Signed decimal, blank means no data  |                                    |
| [PRE_REF_L]                           | Pre-surgery refractive power                 | -      | 1 | Pre-surgery refractive power                    | number | ASCII | less than 7  | Signed decimal, blank means no data  |                                    |
| [IOL_RES_L]<br>[IOL_RES_n_L]<br>(n=2) | IOL calculation result                       | Max 16 | 9 | IOL Formula                                     | letter | ASCII | less than 16 | Letters showing each IOL formula<br>See ※5 Letter of each formula below  |                                    |
|                                       |  |        |   | IOL Manufacturer name                           | letter | ASCII | less than 11 | Manufacturer name used for IOL calculation, blank means no data  |                                    |

**DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)**

|  |  |           |    |   |        |       |              |   |    |
|--|--|-----------|----|---|--------|-------|--------------|---|----|
|  |  |           |    | IOL Model name                                  | letter | ASCII | less than 11 | Model name used for IOL calculation, blank means no data  |    |
|  |  |           |    | Lens constant 1                                 | number | ASCII | less than 7  | Signed decimal, blank means no data<br>Lens constant for IOL formula<br>See ※6 Range and lens constants that are used for each formula below  |    |
|  |  |           |    | Lens constant 2                                 | number | ASCII | less than 7  | Signed decimal, blank means no data<br>Lens constant for IOL formula<br>See ※6 Range and lens constants that are used for each formula below  |    |
|  |  |           |    | Lens constant 3                                 | number | ASCII | less than 7  | Signed decimal, blank means no data<br>Lens constant for IOL formula<br>See ※6 Range and lens constants that are used for each formula below  |    |
|  |  |           |    | Calculation result                              | number | ASCII | less than 7  | Signed decimal, blank means no data<br>All IOL calculated results are sent.<br>Calculation result :IOL power calculated by IOL formula  |    |
|  |  |           |    | IOL power                                       | number | ASCII | less than 7  | Signed decimal, blank means no data<br>All IOL calculated results are sent.<br>The numerical value of the multiple of 0.5 nearest to a calculation result(Center value in IOL power list) |    |
|  |  |           |    | Refraction power expected                       | number | ASCII | less than 7  | Signed decimal, blank means no data<br>All IOL calculated results are sent.<br>Refraction power expected: Refractive power calculated with IOL power                                      |    |
| [IOL_RES_AR<br>RAY_IOL_L]<br>[IOL_RES_AR<br>RAY_IOL_n_L<br>]<br>*(n=2) | IOLCalculation<br>result column                      | Max<br>16 | 10 | (First column)<br>column number                 | number | ASCII | less than 7  | Column number of IOL calculation result.  |    |
|  |  |           |    | (Second column)<br>IOL power                    | number | ASCII | less than 7  | IOL power   |    |
| [IOL_RES_AR<br>RAY_REF_L]<br>[IOL_RES_AR<br>RAY_REF_n_L]<br>*(n=2)     | IOLCalculation<br>result column                      | Max<br>16 | 10 | (First column)<br>column number                 | number | ASCII | less than 7  | Column number of IOL calculation result.  |    |
|  |  |           |    | (Second column)<br>Refraction power<br>expected | number | ASCII | less than 7  | Refraction power expected   |    |
| [IMP_IOL_L]  | Implanted IOL  | -         | 3  | Manufacturer of<br>Implanted IOL                | letter | ASCII | less than 11 | Manufacturer of Implanted IOL, blank means no data  |    |
|  |  |           |    | Model name of<br>Implanted IOL                  | letter | ASCII | less than 11 | Model name of Implanted IOL, blank means no data  |    |
|  |  |           |    | Power of Implanted<br>IOL                       | number | ASCII | less than 7  | Power of Implanted IOL, Signed decimal, blank means no data   |    |
| [PO_REF_L]   | Post-surgery<br>refractive<br>power                  | -         | 1  | Post-surgery<br>refractive power                | number | ASCII | less than 7  | Signed decimal, blank means no data   |    |
| [IOL_OPTION<br>_L]   | Input Options<br>of IOL<br>Calculation<br>(Left eye) | -         | 2  | WTW   | Num    | ASCII | 5            | Signed decimal  | mm |
|  |  |           |    | WTW Caution                                     | Num    | ASCII | 1            | Unsigned integer<br>Warning 1 Without warning:0   |    |



### DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)

| Toric Calculator         |                             |       |   |                                      |        |       |              |  |      |
|--------------------------|-----------------------------|-------|---|--------------------------------------|--------|-------|--------------|--|------|
| [TORIC_PARM_R]           | Toric calculation parameter | -     | 8 | Axial length                         | number | ASCII | less than 5  | Unsigned decimal, blank means no data (14.00-40.00)  | mm   |
|                          |                             |       |   | ACD                                  | number | ASCII | less than 4  | Unsigned decimal, blank means no data (1.50-7.00)  | mm   |
|                          |                             |       |   | Flat meridian (Kf)                   | number | ASCII | less than 5  | Unsigned decimal, blank means no data  | D/mm |
|                          |                             |       |   | Steep meridian (Ks)                  | number | ASCII | less than 5  | Unsigned integer, blank means no data  | D/mm |
|                          |                             |       |   | Axis angle of Kf                     | number | ASCII | less than 3  | Unsigned integer, blank means no data  | deg  |
|                          |                             |       |   | Axis angle of Ks                     | number | ASCII | less than 3  | Unsigned integer, blank means no data  | deg  |
|                          |                             |       |   | Lens thickness                       | number | ASCII | less than 5  | Unsigned decimal, blank means no data  | mm   |
|                          |                             |       |   | WTW                                  | number | ASCII | less than 5  | Unsigned decimal, blank means no data  | mm   |
| [TORIC_PARM_L]           | Toric calculation parameter | -     | 8 | Axial length                         | number | ASCII | less than 5  | Unsigned decimal, blank means no data (14.00-40.00)  | mm   |
|                          |                             |       |   | ACD                                  | number | ASCII | less than 4  | Unsigned decimal, blank means no data (1.50-7.00)  | mm   |
|                          |                             |       |   | Flat meridian (Kf)                   | number | ASCII | less than 5  | Unsigned decimal, blank means no data  | D/mm |
|                          |                             |       |   | Steep meridian (Ks)                  | number | ASCII | less than 5  | Unsigned integer, blank means no data  | D/mm |
|                          |                             |       |   | Axis angle of Kf                     | number | ASCII | less than 3  | Unsigned integer, blank means no data  | deg  |
|                          |                             |       |   | Axis angle of Ks                     | number | ASCII | less than 3  | Unsigned integer, blank means no data  | deg  |
|                          |                             |       |   | Lens thickness                       | number | ASCII | less than 5  | Unsigned decimal, blank means no data  | mm   |
|                          |                             |       |   | WTW                                  | number | ASCII | less than 5  | Unsigned decimal, blank means no data  | mm   |
| [INSICION_n_R]<br>n=1~2  | Incision parameter          | -     | 2 | Surgically induced astigmatism (SIA) | number | ASCII | less than 4  | Unsigned decimal, blank means no data (0.00-2.00)  | D    |
|                          |                             |       |   | Incision axis                        | number | ASCII | less than 3  | Unsigned integer (0-359)   |      |
| [INSICION_n_L]<br>n=1~2  | Incision parameter          | -     | 2 | Surgically induced astigmatism (SIA) | number | ASCII | less than 4  | Unsigned decimal, blank means no data (0.00-2.00)  | D    |
|                          |                             |       |   | Incision axis                        | number | ASCII | less than 3  | Unsigned integer (0-359)   |      |
| [TORIC_RES_n_R]<br>n=1~8 | Toric calculation result    | Max 8 | 9 | IOL formula                          | letter | ASCII | less than 16 | Letters showing each IOL formula<br>*Character string of each formula is stated elsewhere *9 |      |
|                          |                             |       |   | Manufacturer of Implanted IOL        | letter | ASCII | less than 10 | Letters showing manufacturer of implanted IOL used for calculation, blank means no data      |      |
|                          |                             |       |   | Model name of Implanted IOL          | letter | ASCII | less than 10 | Letters showing IOL model name used for calculation, blank means no data                     |      |
|                          |                             |       |   | Power of Implanted IOL               | number | ASCII | less than 6  | Signed decimal, blank means no data  |      |
|                          |                             |       |   | Lens constant                        | number | ASCII | less than 5  | Signed decimal, blank means no data, Lens Factor (-2.00 - 5.00)                              |      |
|                          |                             |       |   | IOL Cyl                              | number | ASCII | less than 6  | Signed decimal, blank means no data  |      |
|                          |                             |       |   | Res Cyl                              | number | ASCII | less than 6  | Signed decimal, blank means no data  |      |
|                          |                             |       |   | Res Axis                             | number | ASCII | less than 3  | Unsigned integer (0-359), blank means no data  |      |
| [TORIC_RES_n_L]<br>n=1~8 | Toric calculation result    | Max 8 | 9 | Axis angle of IOL                    | number | ASCII | less than 3  | Unsigned integer (0-359), blank means no data  |      |
|                          |                             |       |   | IOL formula                          | letter | ASCII | less than 16 | Letters showing each IOL formula<br>*Character string of each formula is stated elsewhere *9 |      |
|                          |                             |       |   | Manufacturer of Implanted IOL        | letter | ASCII | less than 10 | Letters showing manufacturer of implanted IOL used for calculation, blank means no data      |      |
|                          |                             |       |   | Model name of Implanted IOL          | letter | ASCII | less than 10 | Letters showing IOL model name used for calculation, blank means no data                     |      |
|                          |                             |       |   | Power of Implanted IOL               | number | ASCII | less than 6  | Signed decimal, blank means no data  |      |
|                          |                             |       |   | Lens constant                        | number | ASCII | less than 5  | Signed decimal, blank means no data, Lens Factor (-2.00 - 5.00)                              |      |

**DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)**

|  |  |   |    |   |        |       |              |   |  |
|--|--|---|----|---|--------|-------|--------------|---|--|
|  |  |   |    | IOL Cyl                                     | number | ASCII | less than 6  | Signed decimal, blank means no data   |  |
|  |  |   |    | Res Cyl                                     | number | ASCII | less than 6  | Signed decimal, blank means no data   |  |
|  |  |   |    | Res Axis                                    | number | ASCII | less than 3  | Unsigned integer (0-359), blank means no data   |  |
|  |  |   |    | Axis angle of IOL                           | number | ASCII | less than 3  | Unsigned integer (0-359), blank means no data   |  |
|  |  |   |    | (First column)<br>column number             | number | ASCII | less than 6  | Unsigned integer, column number of Toric calculation result, 3 or blank (no data)                   |  |
| [TORIC_<br>RES_ARRAY_<br>n_R]<br>n=1~8 | Toric<br>calculation<br>result array         | — | 11 | (Second column)<br>Selected data            | number | ASCII | 1            | Unsigned integer, column number which are under evaluation, 1-3 or blank (no<br>calculation result) |  |
|  |  |   |    | (3, 6, 9 <sup>th</sup> column)<br>IOL Cyl   | number | ASCII | less than 6  | Signed decimal, blank means no calculation result   |  |
|  |  |   |    | (4, 7, 10 <sup>th</sup> column)<br>RES Cyl  | number | ASCII | less than 6  | Signed decimal, blank means no calculation result   |  |
|  |  |   |    | (5, 8, 11 <sup>th</sup> column)<br>RES Axis | number | ASCII | less than 3  | Unsigned integer, blank means no calculation result   |  |
|  |  |   |    | (First column)<br>column number             | number | ASCII | less than 6  | Unsigned integer, column number of Toric calculation result, 3 or blank (no data)                   |  |
| [TORIC_<br>RES_ARRAY_<br>n_L]<br>n=1~8 | Toric<br>calculation<br>result array         | — | 11 | (Second column)<br>Selected data            | number | ASCII | 1            | Unsigned integer, column number which are under evaluation, 1-3 or blank (no<br>calculation result) |  |
|  |  |   |    | (3, 6, 9 <sup>th</sup> column)<br>IOL Cyl   | number | ASCII | less than 6  | Signed decimal, blank means no calculation result   |  |
|  |  |   |    | (4, 7, 10 <sup>th</sup> column)<br>RES Cyl  | number | ASCII | less than 6  | Signed decimal, blank means no calculation result   |  |
|  |  |   |    | (5, 8, 11 <sup>th</sup> column)<br>RES Axis | number | ASCII | less than 3  | Unsigned integer, blank means no calculation result   |  |
|  |  |   |    | (First column)<br>column number             | number | ASCII | less than 6  | Unsigned integer, column number of Toric calculation result, 3 or blank (no data)                   |  |
| [TORIC_<br>IOL_ARRAY_<br>n_R]<br>n=1~8 | IOL for Toric<br>calculation<br>result array | — | 8  | (Second column)<br>Selected data            | number | ASCII | 1            | Unsigned integer, column number which are under evaluation, 1-3 or blank (no<br>calculation result) |  |
|  |  |   |    | (3, 5, 7 <sup>th</sup> column)<br>IOL       | number | ASCII | less than 6  | Signed decimal, blank means no calculation result   |  |
|  |  |   |    | (4, 6, 8 <sup>th</sup> column)<br>RESI      | number | ASCII | less than 6  | Signed decimal, blank means no calculation result   |  |
|  |  |   |    | (First column)<br>column number             | number | ASCII | less than 6  | Unsigned integer, column number of Toric calculation result, 3 or blank (no data)                   |  |
| [TORIC_<br>IOL_ARRAY_<br>n_L]<br>n=1~8 | IOL for Toric<br>calculation<br>result array | — | 8  | (Second column)<br>Selected data            | number | ASCII | 1            | Unsigned integer, column number which are under evaluation, 1-3 or blank (no<br>calculation result) |  |
|  |  |   |    | (3, 5, 7 <sup>th</sup> column)<br>IOL       | number | ASCII | less than 6  | Signed decimal, blank means no calculation result   |  |
|  |  |   |    | (4, 6, 8 <sup>th</sup> column)<br>RESI      | number | ASCII | less than 6  | Signed decimal, blank means no calculation result   |  |
|  |  |   |    | (First column)<br>column number             | number | ASCII | less than 6  | Unsigned integer, column number of Toric calculation result, 3 or blank (no data)                   |  |
| [TORIC_<br>SEL_R]                      | Toric selected<br>value                      | - | 3  | Model name of<br>Implanted IOL              | letter | ASCII | less than 10 | Letters showing IOL model name used for calculation, blank means no data                            |  |
|  |  |   |    | Power of Implanted<br>IOL                   | number | ASCII | less than 6  | Signed decimal, blank means no data   |  |
|  |  |   |    | Axis angle of IOL                           | number | ASCII | less than 3  | Unsigned integer, blank means no data   |  |

### DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)

|                |                        |           |   |                             |        |       |              |  |  |
|----------------|------------------------|-----------|---|-----------------------------|--------|-------|--------------|--|--|
| [TORIC_SEL_L]  | Toric selected value   | -         | 3 | Model name of Implanted IOL | letter | ASCII | less than 10 | Letters showing IOL model name used for calculation, blank means no data   |  |
|                |                        |           |   | Power of Implanted IOL      | number | ASCII | less than 6  | Signed decimal, blank means no data  |  |
|                |                        |           |   | Axis angle of IOL           | number | ASCII | less than 3  | Unsigned integer, blank means no data  |  |
| [FILES_N]<br>※ | Attached file number   | -         | 2 | File number                 | number | ASCII | less than 4  | Unsigned integer (0 - 999)   |  |
|                |                        |           |   | Encryption                  | letter | ASCII | -            | None: Encrypted "no encryption":Not Encrypted<br>In some cases, the column is not attached   |  |
| [FILE]<br>※※   | File name and function | Max<br>66 | 3 | File name                   | letter | ASCII | less than 16 | Letter (AXL_*00.JPG,ACD_*00.JPG,PCY*00.JPG,SCREENSHOT.JPG)<br>Image Including of Measurement information<br>(AXIAL_*.jpg,ACD_*.jpg,PACHY_*.jpg)<br>* is R/L, 00 is waveform number |  |
|                |                        |           |   | File type                   | letter | ASCII | less than 6  | Letter (Axial,ACD,Pachy,COPY) another is Blank<br>In some cases, the column is not attached  |  |
|                |                        |           |   | Classification code         | letter | ASCII | 3            | Letter Refer ※1) About classification code<br>In some cases, the column is not attached  |  |
| [FILE]<br>※6   | File name and function | Max<br>66 | 3 | File name                   | letter | ASCII | less than 16 | Letter (AXL_*00.bin,ACD_*00.bin,PCY*00.bin,SCREENSHOT.JPG)<br>* is R/L, 00 is waveform number  |  |
|                |                        |           |   | File type                   | letter | ASCII | less than 6  | Letter (Axial,ACD,Pachy,COPY) another is Blank<br>In some cases, the column is not attached  |  |
|                |                        |           |   | Classification code         | letter | ASCII | 3            | Letter Refer ※1) About classification code<br>In some cases, the column is not attached  |  |

#### Caution

- Reserved word “\_R” means right eye data; “\_L” means left eye data.
- Numbers of fields are increased when some software versions are available.
- Wave form data fields are increased until waveform is finished.
- Calculation results are recorded until it is finished.

## DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)

### ※1) About Classification code

| Classification code | Category A(Eye) |               | Category B(Type of wave form) |   | Category C(Waveform No) |                      |
|---------------------|-----------------|---------------|-------------------------------|---|-------------------------|----------------------|
|                     | R               | Right         | 0                             | Axial length waveform<br>(ACS-Retina)   | 0                       | No:0 (First)         |
|                     | L               | Left          | 1                             | ACD waveform (PCS-ALS)                  | 1                       | No:1 (Second)        |
|                     | D               | Both eyes     | 2                             | Cornea thickness wave form<br>(ACS-PCS) | 2                       | No:2 (Third)         |
|                     | X               | No indication | X                             | No indication                           | 3                       | No:3 (Fourth)        |
|                     |                 |               |                               |   | 4                       | No:4 (Fifth)         |
|                     |                 |               |                               |   | 5                       | No:5 (Sixth)         |
|                     |                 |               |                               |   | 6                       | No:6 (Seventh)       |
|                     |                 |               |                               |   | 7                       | No:7 (Eighth)        |
|                     |                 |               |                               |   | 8                       | No:8 (Ninth)         |
|                     |                 |               |                               |   | 9                       | No:9 (Tenth)         |
|                     |                 |               |                               |   | I                       | Integral waveform(I) |
|                     |                 |               |                               |   | X                       | No indication        |

### ※2) About embedded waveform data “Tag[\*\*\*WAVE\_FM\*\*\*]”.

This information is used with External Unit(ex: AL-3000) waveform display only.

When data is sent, sending device delete this information.

When data is received, receiving device ignore this information.

### ※3) About attached waveform data “Tag[FILES\_N][FILE]”

This information is used with TOMEY-Link waveform display only.

When data is sent, sending device delete this information.

When data is received, receiving device ignore this information.

## DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)

### ※4) Specification of IOL calculation number

If AXIAL\_N\_R/L tag is like a following situation

(1) In the case of IOL calculation number is attached, Waveform of the IOL selection number is displayed.

(2) In the case of IOL calculation number is not attached, there are 2 pattern.

(2-1) If there isn't ITG, AVG is selected as the selection number automatically

(2-2) If there is ITG, ITG is selected as the selection number automatically

### ※5) Letter of each formula

|                      | 1   | 2   | 3   | 4     | 5   | 6   | 7     | 8     | 9     | 10  | 11  | 12  | 13  | 14  |
|----------------------|-----|-----|-----|-------|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|
| SRK II               | 'S' | 'R' | 'K' | space | 'I' | 'I' |       |       |       |     |     |     |     |     |
| SRK/T                | 'S' | 'R' | 'K' | '/'   | 'T' |     |       |       |       |     |     |     |     |     |
| HOLLADAY             | 'H' | 'O' | 'L' | 'L'   | 'A' | 'D' | 'A'   | 'Y'   |       |     |     |     |     |     |
| Hoffer Q             | 'H' | 'o' | 'f' | 'f'   | 'e' | 'r' | space | 'Q'   |       |     |     |     |     |     |
| HAIGIS std           | 'H' | 'A' | 'I' | 'G'   | 'I' | 'S' | space | 's'   | 't'   | 'd' |     |     |     |     |
| HAIGIS opt           | 'H' | 'A' | 'I' | 'G'   | 'I' | 'S' | space | 'o'   | 'p'   | 't' |     |     |     |     |
| Showa SRK            | 'S' | 'H' | 'O' | 'W'   | 'A' |     |       |       |       |     |     |     |     |     |
| SRK                  | 'S' | 'R' | 'K' |       |     |     |       |       |       |     |     |     |     |     |
| HOLLADAY II          | 'H' | 'O' | 'L' | 'L'   | 'A' | 'D' | 'A'   | 'Y'   | space | '2' |     |     |     |     |
| Binkhorst            | 'B' | 'i' | 'n' | 'k'   | 'h' | 'o' | 'r'   | 's'   | 't'   |     |     |     |     |     |
| DoubleK SRK/T        | 'D' | 'o' | 'u' | 'b'   | 'l' | 'e' | space | 'K'   | space | 'S' | 'R' | 'K' | '/' | 'T' |
| Shammas-PL           | 'S' | 'h' | 'a' | 'm'   | 'm' | 'a' | 's'   | 'L'   | 'P'   | 'L' |     |     |     |     |
| Barrett Universal II | 'B' | 'a' | 'r' | 'r'   | 'e' | 't' | 't'   | space | 'U'   | 'I' | 'I' |     |     |     |
| Barrett True K       | 'B' | 'a' | 'r' | 'r'   | 'e' | 't' | 't'   | space | 'T'   | 'r' | 'u' | 'e' | 'K' |     |

## DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)

※6) Range and lens constants that are used for each formula

|                      | Constant 1 | Constant 2 | Constant 3 | Range   |
|----------------------|------------|------------|------------|---|
| SRK II               | A-Const    | Blank      | Blank      | 100.00~130.00   |
| SRK/T                | A-Const    | Blank      | Blank      | 100.00~130.00   |
| HOLLADAY             | SF         | Blank      | Blank      | -5.00~10.00   |
| Hoffer Q             | ACD-Const  | Blank      | Blank      | 0.00~10.00  |
| HAIGIS std           | A-Const    | a1         | a2         | A-Const: 100.00~130.00<br>a1: -0.99~0.99<br>a2: -0.99~0.99  |
| HAIGIS opt           | a0         | a1         | a2         | a0: -9.99~9.99<br>a1: -0.99~0.99<br>a2: -0.99~0.99<br>a0, a1, a2 shall meet the following condition is satisfied<br>$2 < a0 + a1 \times 3.37 + a2 \times 23.39 < 7$<br>$2 < a0 + a1 \times 2.53 + a2 \times 20.00 < 7$<br>$2 < a0 + a1 \times 3.50 + a2 \times 27.00 < 7$ |
| Showa SRK            | A-Const    | Blank      | Blank      | 100.00~130.00   |
| SRK                  | A-Const    | Blank      | Blank      | 100.00~130.00   |
| HOLLADAY II          | -          | -          | -          | -   |
| Binkhorst            | ACD-Const  | Blank      | Blank      | 0.00~10.00  |
| Shammas-PL           | A-Const    | Blank      | Blank      | 100.00~130.00   |
| Barrett Universal II | LF         | Blank      | Blank      | -2.00~5.00  |

※7) When the file which T-link/Data Transfer received from product is outputted.

※8) When data is directly outputted from products.

※9) Letter of each Toric Calculator

|                               | 1   | 2   | 3   | 4   | 5   | 6   | 7     | 8   | 9   | 10  | 11  | 12  | 13 | 14 | 15 | 16 |
|-------------------------------|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|----|----|----|----|
| Barrett Toric Calculator      | 'B' | 'a' | 'r' | 'r' | 'e' | 't' |       |     |     |     |     |     |    |    |    |    |
| Barrett True Toric Calculator | 'B' | 'a' | 'r' | 'r' | 'e' | 't' | space | 'T' | 'r' | 'u' | 'e' | 'K' |    |    |    |    |
| Orsen                         | 'O' | 'r' | 's' | 'e' | 'n' |     |       |     |     |     |     |     |    |    |    |    |

## DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)

### 2. Sample (Portion following a common header)

2—1. Axial, ACD, and Pachy data are available for both eyes. Calculation results are available for both eyes.

| SAMPLE   | Explanation  |
|--|--|
| [FM_IF],OPTAXIAL,0-04-20                                   | <b>Unit Format</b> OPTAXIAL version:0-04-12  |
| [MAC_V],00   | Software Version : 00  |
| [MSR_MAC_V],OA-1000,2B0,3C0,2H0                            | Model name: OA-1000、 CPU software version: 2B0、 FPGA version: 3C0、 LAN software version: 2H0   |
| [EDIT_MAC_V],AL-4000_CAL,LNC000,EXF000,TPC000              | Model name: AL-4000_CAL、 CPU software version: LNC000、 FPGA version: EXF000、 Touch panel software version: TPC000  |
| [FITTING_VER],FIT_INIT                                     | Formula type of fitting FIT_INIT   |
| [OP_ETYP_R],Phakic   | Eye type is Phakic   |
| [OP_ATMN_R],Auto   | Measurement method is Auto   |
| [OP_MPNT_R],Normal   | Measurement lens position is Normal  |
| [OP_CONV_R],OptLength                                      | Measurement result conversion method is OptLength<br>(Contact: Ultrasound contact, Immersion: Ultrasound immersion, MeanRI: Average refractive index)  |
| [OP_REF_R],1.3548,1.3641,1.4532,1.3532, 1.3866,0.100,1.300 | Average refractive index, ACD refractive index, Lens refractive index, Vitreous refractive index, Cornea refractive index, IOL thickness, IOL refractive index   |
| [OP_IOL_PMMA_R],0.100,1.300                                | IOL thickness, IOL refractive index(PMMA IOL)  |
| [OP_IOL_SILICONE_R],0.302,1.350                            | IOL thickness, IOL refractive index(SILICONE IOL)  |
| [OP_IOL_ACRYLIC_R],0.400,1.400                             | IOL thickness, IOL refractive index(ACRYLIC IOL)   |
| [OP_AXIAL_N_R],10,22.34,A,2,0.02                           | Number of data is 10, Average is 22.34mm, IOL calculation is done with average, Printing data is No. 2, SD is 0.02mm   |
| [OP_AXIAL0_R],22.33,1920,22.35,1922,12.7,2235,c            | Axial length22.33mm, Measurement position1920dot, Axial length just after measurement is 22.35mm, Measurement position just after measurement is 1922dot, SNR12.7, Initial count number 2235, Caliper is already done. |
| [OP_AXIAL1_R].....[OP_AXIAL2_R].....                       |  |
| [OP_AXIAL_WAVE_FM0_R],4,640,1980,0x25-0x55-0xFD-0x42...    | Thinning 4, Data number 640, Waveform starting point 1980, Axial waveform as same as Data number (binary, no tab)  |
| [OP_AXIAL_WAVE_FM 1_R].....[OP_AXIAL_WAVE_FM 2_R].....     |  |
| [OP_ACD_N_R],10,6.41,1,2,0.01                              | Number of data is 10, average is 6.41mm, IOL calculation is done with no.1 waveform, Printing data is No. 2, SD is 0.01mm  |

## DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)

[OP\_ACD0\_R],6.41,2230,6.41,2230,5.0,641,!]

ACD6.41mm, Measurement position 2230dot, ACD just after measurement is 6.41mm, Measurement position just after measurement is 2230dot,

SNR5.0, Initial count number 641, Low reliability data

[OP\_ACD1\_R].....[OP\_ACD2\_R].....

[OP\_ACD\_WAVE\_FM0\_R],4,640,981,0x25-0x55-0xFD-0x42...

Thinning 4, Data number 640, Waveform starting point 981, ACD waveform as same as Data number (binary, no tab)

[OP\_ACD\_WAVE\_FM 1\_R].....[OP\_ACD\_WAVE\_FM 2\_R].....

[OP\_LENS\_N\_R],10,3.33,1,2,0.01 Number of data is 10, average is 3.33mm, IOL calculation is done with No.1 waveform, Printing data is No.2, SD is 0.01mm

[OP\_LENS0\_R],3.50,1200,3.18,880,10.0,318,

Lens thickness 3.50mm, Measurement position 1200dot, Lens just after measurement is 3.18mm, Measurement position just after measurement is 880,

SNR10.0, Initial count number 318, status (normal)

[OP\_LENS1\_R].....[OP\_LENS2\_R].....

[OP\_LENS\_WAVE\_FM0\_R],4,640,1200,0x25-0x55-0xFD-0x42...

Thinning 4, Data number 640, Waveform starting point 1200, Lens waveform as same as Data number (binary, no tab)

[OP\_LENS\_WAVE\_FM 1\_R].....[OP\_LENS\_WAVE\_FM 2\_R].....

[OP\_CORNEA\_N\_R],10,545,1,2,12 Number of data is 10, average is 545um, IOL calculation is done with No.1 waveform, Printing data is No.2, SD is 12um

[OP\_CORNEA0\_R],552,2200,538,2186,12.4,538,

Cornea thickness 552um, Measurement position 2200dot, Cornea just after measurement is, Measurement position just after measurement is 2186,

SNR12.4, Initial count number 538, status (normal)

[OP\_CORNEA1\_R].....[OP\_CORNEA2\_R].....

[OP\_CORNEA\_WAVE\_FM0\_R],4,1280,200,0x25-0x55-0xFD-0x42...

Thinning 4, Data number 1280, Waveform starting point 200, Cornea waveform as same as Data number (binary, no tab)

[OP\_CORNEA\_WAVE\_FM 1\_R].....[OP\_CORNEA\_WAVE\_FM 2\_R].....

[OP\_AXIAL\_ITG\_R], 22.33,1920,22.35,1922,111.7,2235,!]

Axial length 22.33mm, Measurement position 1920dot, Axial just after measurement is 22.35mm, Measurement position just after measurement is 1922dot,

SNR111.7, Initial count number 2235, low reliability data

[OP\_AXIAL\_WAVE\_ITG\_R],4,4200,200,0x25-0x55-...

Thinning 4, Data number 4200, Waveform starting point 200, Cornea wave form as same as Data number (binary, no tab)

[OP\_AXIAL\_OPT\_R],19.08,19.08,19.08,19.08,19.08,19.08,19.08,19.08,19.08

Measurement Value of Opt Length

[OP\_AXIAL\_OPT\_AVG\_R],19.08

Average value of OptLength



## DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)

|   |  |
|---|--|
| [OP_AXIAL_OPT_ITG_R],19.08  | Integral Value of OptLength Mode   |
| [OP_AXIAL_OPT_SD_R],0.00  | Standard Deviation of OptLength  |
| [OP_AXIAL_CON_R],18.38,18.38,18.38,18.38,18.38,18.38,18.38,18.38,18.38,18.38  | Measurement Value of Contact   |
| [OP_AXIAL_CON_AVG_R],18.38  | Average value of Contact   |
| [OP_AXIAL_CON_ITG_R],18.38  | Integral Value of Contact  |
| [OP_AXIAL_CON_SD_R],0.00  | Standard Deviation of Contact  |
| [OP_AXIAL_IMM_R],18.54,18.54,18.54,18.54,18.54,18.54,18.54,18.54,18.54,18.54  | Measurement Value of Immersion   |
| [OP_AXIAL_IMM_AVG_R],18.54  | Average value of Immersion   |
| [OP_AXIAL_IMM_ITG_R],18.54  | Integral Value of Immersion  |
| [OP_AXIAL_IMM_SD_R],0.00  | Standard Deviation of Immersion  |
| [OP_AXIAL_UADJ_R],18.39,18.39,18.39,18.39,18.39,18.39,18.39,18.39,18.39,18.39 | Measurement Value of User-Adj (Contact2)   |
| [OP_AXIAL_UADJ_AVG_R],18.39   | Average value of User-Adj (Contact2)   |
| [OP_AXIAL_UADJ_ITG_R],18.39   | Integral Value of User-Adj (Contact2)  |
| [OP_AXIAL_UADJ_SD_R],0.00   | Standard Deviation of User-Adj (Contact2)  |
| [OP_AXIAL_UADJ_OFFSET_R],0.01   | Offset value by I User-Adj (Contact2)  |
| [OP_CCT_US_R],526,16  | Average corneal thickness of correcting the value of the ultrasound, Offset value for correcting   |
| [OP_ETYP_L],Silicone  | Eye type is Silicone   |
| [OP_ATMN_L],Manual  | Measurement method is Manual   |
| [OP_MPNT_L],Cataract  | Measurement lens position is $\Phi$ 0.6mm  |
| [OP_CONV_L],Immersion   | Measurement result conversion method is Immersion<br>(Contact: Ultrasound contact, Immersion: Ultrasound immersion, MeanRI: Average refractive index)                |
| [OP_REF_L],,1.3641,1.4532,1.3532,1.3866,0.100,1.300                           | Average refractive index(None), ACD refractive index, Lens refractive index, Vitreous refractive index, Cornea refractive index, IOL thickness, IOL refractive index |
| [OP_IOL_PMMA_L],0.100,1.300   | IOL thickness, IOL refractive index(PMMA IOL)  |
| [OP_IOL_SILICONE_L],0.302,1.350   | IOL thickness, IOL refractive index(SILICONE IOL)  |
| [OP_IOL_ACRYLIC_L],0.400,1.400  | IOL thickness, IOL refractive index(ACRYLIC IOL)   |

## DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)

[OP\_AXIAL\_N\_L],10,22.34,1,2, 0.02     Number of data is 10, Average is 22.34mm, IOL calculation is done with Integral data, Printing data is No.2, SD is 0.02mm

[OP\_AXIAL0\_L],22.33,1920,22.35,1922,12.7,2235,c

Axial length22.33mm, Measurement position1920dot, Axial just after measurement is 22.35mm, Measurement position just after measurement is 1922dot,

SNR12.7, Initial count number 2235, Callipered data

[OP\_AXIAL1\_L].....[OP\_AXIAL2\_L].....

[OP\_AXIAL\_WAVE\_FM0\_L],4,640,1980,0x25-0x55-0xFD-0x42...

Thinning 4, Data number 640, Waveform starting point 1980, Axial wave form as same as Data number (binary, no tab)

[OP\_AXIAL\_WAVE\_FM 1\_L].....[OP\_AXIAL\_WAVE\_FM 2\_L].....

[OP\_ACD\_N\_L],10,6.41,1,2,0.01     Number of data is 10, Average is 6.41mm, IOL calculation is done with No.1 waveform, Printing data is No.2, SD is 0.01mm

[OP\_ACD0\_L],6.41,2230,6.41,2230,5.0,641,!

ACD6.41mm, Measurement position 2230dot, ACD just after measurement is 6.41mm, Measurement position just after measurement is 2230dot,

SNR5.08, Initial count number 641, low reliability data

[OP\_ACD1\_L].....[OP\_ACD2\_L].....

[OP\_ACD\_WAVE\_FM0\_L],4,640,981,0x25-0x55-0xFD-0x42...

Thinning 4, Data number 640, Waveform starting point 981, ACD waveform as same as Data number (binary, no tab)

[OP\_ACD\_WAVE\_FM 1\_L].....[OP\_ACD\_WAVE\_FM 2\_L].....

[OP\_LENS\_N\_L],10,3.33,1,2,0.01     Number of data is 10, Average is 3.33mm, IOL calculation is done with No.1 waveform, Printing data is No.2, SD is 0.01mm

[OP\_LENS0\_L],3.50,1200,3.18,880,10.0,318

Lens thickness3.50mm, Measurement position1200dot, Lens just after measurement is 3.18mm, Measurement position just after measurement is 880,

SNR10.0, Initial count number 318, status none (normal)

[OP\_LENS1\_L].....[OP\_LENS2\_L].....

[OP\_LENS\_WAVE\_FM0\_L],4,640,1200,0x25-0x55-0xFD-0x42...

Thinning 4, Data number 640, Waveform starting point 1200, Lens waveform as same as Data number (binary, no tab)

[OP\_LENS\_WAVE\_FM 1\_L].....[OP\_LENS\_WAVE\_FM 2\_L].....

[OP\_CORNEA\_N\_L],10,545,1,2,12     Number of data is 10, Average is 545um, IOL calculation is done with No.1 waveform, Printing data is No.2, SD is 12um

[OP\_CORNEA\_L],552,2200,538,2186,12.4,538

Cornea thickness 552um , Measurement position 2200dot, Cornea just after measurement is 538, Measurement position just after measurement is 2186,

SNR12.4, Initial count number 538, status none (normal)

[OP\_CORNEA1\_L].....[OP\_CORNEA2\_L].....

[OP\_CORNEA\_WAVE\_FM0\_L],4,1280,200,0x25-0x55-0xFD-0x42...

Thinning 4, Data number 1280, Waveform starting point 200, Cornea waveform as same as Data number (binary, no tab)

## DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)

[OP\_CORNEA\_WAVE\_FM 1\_L].....[OP\_CORNEA\_WAVE\_FM 2\_L].....

[OP\_AXIAL\_ITG\_L], 22.33,1920,22.35,1922,111.70,2235,!  
 Axial length22.33mm, Measurement position1920dot, Axial just after measurement is 22.35mm, Measurement position just after measurement is 1922dot,  
 SNR111.70 , Initial count number 2235, low reliability data

[OP\_AXIAL\_WAVE\_ITG\_L],4,4200,200,0x25-0x55-...  
 Thinning 4, Data number 4200, Waveform starting point 200, Cornea wave form as same as Data number (binary, no tab)

[OP\_AXIAL\_OPT\_L],19.08,19.08,19.08,19.08,19.08,19.08,19.08,19.08,19.08  
 Measurement Value of Opt Length

[OP\_AXIAL\_OPT\_AVG\_L],19.08 Average value of OptLength

[OP\_AXIAL\_OPT\_ITG\_L],19.08 Integral Value of OptLength Mode

[OP\_AXIAL\_OPT\_SD\_L],0.00 Standard Deviation of OptLength

[OP\_AXIAL\_CON\_L],18.38,18.38,18.38,18.38,18.38,18.38,18.38,18.38,18.38  
 Measurement Value of Contact

[OP\_AXIAL\_CON\_AVG\_L],18.38 Average value of Contact

[OP\_AXIAL\_CON\_ITG\_L],18.38 Integral Value of Contact

[OP\_AXIAL\_CON\_SD\_L],0.00 Standard Deviation of Contact

[OP\_AXIAL\_IMM\_L],18.54,18.54,18.54,18.54,18.54,18.54,18.54,18.54,18.54  
 Measurement Value of Immersion

[OP\_AXIAL\_IMM\_AVG\_L],18.54 Average value of Immersion

[OP\_AXIAL\_IMM\_ITG\_L],18.54 Integral Value of Immersion

[OP\_AXIAL\_IMM\_SD\_L],0.00 Standard Deviation of Immersion

[OP\_AXIAL\_UADJ\_L],18.39,18.39,18.39,18.39,18.39,18.39,18.39,18.39,18.39  
 Measurement Value of User-Adj (Contact2)

[OP\_AXIAL\_UADJ\_AVG\_L],18.39 Average value of User-Adj (Contact2)

[OP\_AXIAL\_UADJ\_ITG\_L],18.39 Integral Value of User-Adj (Contact2)

[OP\_AXIAL\_UADJ\_SD\_L],0.00 Standard Deviation of User-Adj (Contact2)

[OP\_AXIAL\_UADJ\_OFFSET\_L],0.01  
 Offset value by I User-Adj (Contact2)

[OP\_CCT\_US\_L],526,16  
 Average corneal thickness of correcting the value of the ultrasound, Offset value for correcting

## DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)

[K12\_R],44.00,45.00 K1 44.00D K2 45.00D

[INF\_R],26.41,5.08,4,21,,, representative value Axial length 26.41 mm,ACD 5.08 mm, Lens thickness 4.21mm, confidence coefficient None, Gain None, Data none

[POSTK\_CH\_R], 44.00,42.00,42.00, , , ,12 POSTK Clinical History Method, POSTK4.00, PreK142.00, PreK242.00, Pre\_SNone,Pre\_C None,Post\_SNone,Post\_C None, VD12

[DREF\_R],-0.50 Desired refractive power -0.50D

[PRE\_REF\_R],-1.00 Pre-surgery refractive power -1.00D

[IOL\_RES\_R],SHOWA SRK, ALCON , MA30BM, 118.90 , 14.16 , 14.00 , -0.37 IOL formula, IOL manufacturer, Model name, Lens constant, Calculation result, IOL power, Refraction power expected

[IOL\_RES\_ARRAY\_IOL\_R],9,12.00,12.50,13.00,13.50,14.00,14.50,15.00,15.50,16.00 Column number:9 , 9 kinds of IOL power

[IOL\_RES\_ARRAY\_IOL\_R],9,1.23,0.83,0.43,0.03,-0.37,-0.77,-1.17,-1.57,-1.97 Column number:9, 9 kinds of Refraction power expected

[IMP\_IOL\_R],ALCON,MA30BM,14.25 Implanted IOL manufacturer: ALCON, Model name:MA30BM, IOL power:14.25D

[K12\_L],44.00,45.00 K1 44.00D K2 45.00D

[INF\_L],26.41,5.08,4,21,,, representative value Axial length 26.41 mm,ACD 5.08 mm, Lens thickness 4.21mm, confidence coefficient None, Gain None, Data none

[POSTK\_CH\_L], 44.00,42.00,42.00, , , ,12 POSTK Clinical History Method, POSTK4.00, PreK142.00, PreK242.00, Pre\_SNone,Pre\_C None,Post\_SNone,Post\_C None, VD12

[DREF\_L],-0.50 Desired refractive power -0.50D

[PRE\_REF\_L],-1.00 Pre-surgery refractive power -1.00D

[IOL\_RES\_L],SHOWA SRK, ALCON , MA30BM, 118.90,14.16,14.00,-0.37 IOL formula, IOL manufacturer, Model name, Lens constant, Calculation result, IOL power, Refraction power expected

[IOL\_RES\_ARRAY\_IOL\_L],9,12.00,12.50,13.00,13.50,14.00,14.50,15.00,15.50,16.00 Column number:9 ,9 kinds of IOL power

[IOL\_RES\_ARRAY\_IOL\_L],9,1.23,0.83,0.43,0.03,-0.37,-0.77,-1.17,-1.57,-1.97 Column number:9,9 kinds of Refraction power expected

[IMP\_IOL\_L],ALCON,MA30BM,14.00 Implanted IOL manufacturer: ALCON, Model name:MA30BM, IOL power:14.00D

[FILES\_N],5,no encryption 5waveform file is attached, No Encrypt

[FILE], OP\_AXIAL\_WAVE\_FM0\_R.bin , Axial,R00 "OP\_AXIAL\_WAVE\_FM0\_R.bin" file is attached axial length waveform No:0(First) and after.

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**DATA FORMAT : Examination data part OPTAXICAL (version:0-04-16)**

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[FILE], AXL\_R01.JPG , Axial,R00

"AXL\_R01.JPG" file is Attached   Axial length wavefor No:0 (first)

[FILE], ACD\_R02.JPG , ACD,R01

"ACD\_R01.JPG" file is Attached   ACD waveform No:1 (second)

[FILE], PCY\_R03.JPG , Pachy,R02

"PCY\_R02.JPG" file is Attached   Corneal thickness waveform No:2 (third)

[FILE], SCREENSHOT.JPG , COPY,RXX

Capture image of right eye