

DATA FORMAT

SPECULAR

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

1 . Definition of TAG and field in CSV file

| Tag Name | Explanation of the tag | Field following a tag | | | | | | |
|---------------------|---------------------------|-----------------------|------------------|---------------------------|----------------|----------------------------------|--|------------|
| | | Number of appearance | Number of fields | Name of fields | Character type | Maximum number of the characters | Detail | Unit |
| [MAC_V] | Software Version | - | 1 | Version | ASCII | 6 | Character string of software version, blank means no data | - |
| [FILES_N] | Number of attached file | - | 1 | File Number | ASCII | 3 | Unsigned integer (0 ~ 999) | |
| [FILE] | File information | Max 4 | 2 | Attached File Name | UTF8 | 255 | Character string | |
| | | | | Function Group Code | ASCII | 16 | hard copy of display image : "COPY" (800 × 600) Endothelium image : "ENDO" (266 × 480) Trace image : "TRACE" (266 × 480) Area analysis image+Apex analysis image :"ANALYSIS" (266 × 480) | |
| [SPECULAR_TYPE] | Law Data Type | - | 1 | Law Data Type | ASCII | 32 | EM-3000_XXXX | - |
| [SPECULAR_ANALYSIS] | Analysis Software Version | - | 1 | Analysis Software Version | ASCII | 32 | EM-3000_XXXX | - |
| [FILTER_SIZE] | Analysis Filter Size | - | 1 | Analysis Filter Size | ASCII | 5 | Character string, "SMALL" or "LARGE" or "HUGE" | - |
| [PIXEL_SIZE] | Adjusted Pixel Size | - | 1 | Adjusted Pixel Size | ASCII | 4 | Unsigned integer (0 ~ 9999), blank means no data | nm |
| [RL] | Tested Eye | - | 1 | Tested Eye | ASCII | 8 | Character string, "Right" or "Left" | - |
| [NUMBER] | Number of analyzed cell | - | 1 | Number of analyzed cell | ASCII | 4 | Unsigned integer (0 ~ 9999), blank means no data | number |
| [DENSITY] | Cell Density | - | 1 | Cell Density | ASCII | 4 | Unsigned integer (0 ~ 9999), blank means no data | number/mm2 |
| [AVG] | Average size | - | 1 | Average Cell Size | ASCII | 4 | Unsigned integer (0 ~ 9999), blank means no data | um2 |
| [SD] | Standard Deviation | - | 1 | Standard Deviation | ASCII | 4 | Unsigned integer (0 ~ 9999), blank means no data | - |
| [CV] | Coefficient of Variation | - | 1 | Coefficient of Variation | ASCII | 4 | Unsigned integer (0 ~ 9999), blank means no data | - |
| [MAX] | Maximum Cell Size | - | 1 | Maximum Cell Size | ASCII | 4 | Unsigned integer (0 ~ 9999), blank means no data | um2 |
| [MIN] | Minimum Cell Size | - | 1 | Minimum Cell Size | ASCII | 4 | Unsigned integer (0 ~ 9999), blank means no data | um2 |
| [THK] | Corneal Thickness | - | 1 | Corneal Thickness | ASCII | 4 | Unsigned integer (0 ~ 9999), blank means no data | mm |
| [HG_RNG] | Histogram Range | - | 2 | Upper Limit | ASCII | 4 | Unsigned integer (0 ~ 1999), blank means no data | um2 |
| | | | | Lower Limit | ASCII | 4 | Unsigned integer (0 ~ 1999), blank means no data | um2 |


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| | | | | | | | | |
|-----------|-------------------|---|----|------------|-------|---|---|---|
| [HG_AREA] | Area Histogram | - | 10 | Result1 | ASCII | 2 | Unsigned integer (0 ~ 99), blank means no data | % |
| | | | | Result2 | ASCII | 2 | Unsigned integer (0 ~ 99), blank means no data | % |
| | | | | Result3 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| | | | | Result4 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| | | | | Result5 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| | | | | Result6 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| | | | | Result7 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| | | | | Result8 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| | | | | Result9 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| | | | | Result10 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| [HG_APEX] | Apex Histogram | - | 8 | Result1 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| | | | | Result2 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| | | | | Result3 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| | | | | Result4 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| | | | | Result5 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| | | | | Result6 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| | | | | Result7 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| | | | | Result8 | ASCII | 2 | Unsigned integer (0 ~ 99) | % |
| [ANS_RNG] | Target Image Area | - | 4 | Left Side | ASCII | 3 | Unsigned integer (0 ~ 265), blank means no data | - |
| | | | | Upper Side | ASCII | 3 | Unsigned integer (0 ~ 479), blank means no data | - |
| | | | | Right Side | ASCII | 3 | Unsigned integer (0 ~ 265), blank means no data | - |
| | | | | Lower Side | ASCII | 3 | Unsigned integer (0 ~ 479), blank means no data | - |

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2 . Samples

2 - 1 . Both Eye Test (Right: 4, Left: 1)

| Sample | Explanation |
|--|---|
| [FM_IF],SPECULAR,1-00-00 | SPECULAR version 1-00-00 |
| [FILES_N], 4  | Four Two Attached files (Analyzed result is sent with the hardcopy of the display image and the endothelium raw image. If there is no analyzed result, only a file of the endothelium raw image is sent.) |
| [FILE],2006112201.jpg,COPY | 2006112201.jpg the hardcopy of the display image |
| [FILE],2006112201.bmp,ENDO | 2006112201.bmp corrected endothelium image |
| [FILE],2006112201.bin,TRACE | 2006112201.bin trace image |
| [FILE],2006112201.bin,ANALYSIS | 2006112201.bin analysis image (Area, Apex) |
| [MAC_V],1.0g | Version 1.0g |
| [SPECULAR_TYPE],EM-3000 | Raw Data Type EM-3000 |
| [SPECULAR_ANALYSIS],EM-3000_INIT | Analysis Type EM-3000_INIT |
| [FILTER_SIZE],SMALL | Filter Size SMALL |
| [PIXEL_SIZE],1154 | Optical adjustment scale 1154nm |
| [RL],Right | Tested Eye = Right |
| [NUMBER],150 | Number of analyzed cell 150 |
| [DENSITY],2500 | Cell Density 2,500/mm2 |
| [AVG],350 | Average Cell Size 350um2 |
| [SD],150 | Standard Deviation 150 |
| [CV],40 | Coefficient of Variation 40 |
| [MAX],1300 | Maximum Cell Size 1,300um2 |
| [MIN],125 | Minimum Cell Size 125um2 |

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| | |
|----------------------------------|---|
| [THK],515 | Corneal Thickness 515um |
| [HG_RNG],100,900 | Area histogram Lower Limit 100, Upper Limit 900 |
| [HG_AREA],0,6,21,36,25,7,1,0,0,4 | Area Histogram Result1:0%,Result2:6%, Result3:21%, Result4:36%, Result5:25%, Result6:7%, Result7:1%, Result8:0%, Result9:0%, Result10:4% |
| [HG_APEX],4,8,42,37,6,0,0,0 | Apex Histogram Result1:4%,Result2:8%, Result3:42%, Result4:37%, Result5:6%, Result6:0%, Result7:0%, Result8:0% |
| [ANS_RNG],5,5,261,474 | Taget Image Area Left side 5,Upper side 5,Right side 261,Lower side 474 |