

의료장비 일반 사양서

문서번호 : 영의26-0709호

신청부서		안과	신청수량	1 set	
장비명	국문	안저카메라	도입구분	분류	A28100.01 [2]
	영문	OPTICAL COHERENCE TOMOGRAPHY		사유	노후

I. General Specification

The specifications below are basically similar or superior specifications.

A. Features :

1. Utilize Swept-Source Optical Coherence Tomography technology.
2. Provide high-resolution retinal and optic nerve imaging.
3. Support OCT Angiography (OCTA) without dye injection.
4. Perform quantitative retinal layer analysis including RNFL and GCC measurements.
5. Provide progression analysis for glaucoma and retinal diseases.
6. Support automatic image acquisition functions such as Auto Focus, Auto Alignment and Auto Capture.
7. Offer wide-field retinal imaging and montage function.
8. Provide anterior segment OCT imaging.
9. Support image comparison and follow-up examination.
10. Be compatible with DICOM/PACS for hospital network integration.

B. Specifications :

Optical System :

1. Imaging Technology: Swept-Source Optical Coherence Tomography (SS-OCT)
2. Central Wavelength: Approximately 1,050 nm or 1,030 ~ 1,070 nm
3. A Scan Speed: 100,000 A-scans/sec or more, or 400 kHz or more
4. Axial Resolution: 8 μ m or less
5. Lateral Resolution: 20 μ m or less
6. Scan Depth: Suitable for retina and anterior segment imaging

Retinal OCT Imaging :

1. The system shall be capable of OCT imaging of the retina and fundus.
2. The scan range shall meet either of the following requirements:
 - Horizontal and vertical scan range of 3 to 21 mm,
 - or Single scan imaging area of up to 29 mm $\times$ 29 mm or greater.
3. The system shall support one or more of the following scan patterns:
 - 3D Scan
 - Line Scan
 - Cross Scan
 - Radial Scan
 - Circle Scan
 - or equivalent or superior retinal OCT scan modes.
4. The system shall support wide-field retinal or fundus imaging and shall meet either of the following requirements:
 - Wide scan of up to 21 mm or greater,
 - or Field of view of 150° or greater for a single scan, or 250° or greater with montage imaging.

OCT Angiography :

1. The system shall support OCT Angiography imaging without the use of contrast media.
2. The system shall be capable of visualization and analysis of retinal vascular structures.
3. The system shall provide one or more of the following functions:
 - Swept-Source OCT Angiography,
 - or Quantitative vascular analysis including FAZ, vessel density, flow area, CVV, CVI, or equivalent parameters.

Fundus Imaging :

1. The system shall be capable of observation and imaging of the fundus.
2. The system shall provide one or more of the following fundus imaging functions:
 - IR, Red-Free, FA, and FAF imaging,
 - or Fundus imaging using Confocal Scanning Laser Ophthalmoscope (cSLO) technology.
3. The system shall allow comparison or correlation between fundus images and OCT images.



Anterior Segment Imaging :

1. The system shall provide anterior segment imaging or analysis and shall meet either of the following requirements:
 - An anterior imaging function or anterior segment option, or Anterior Segment OCT imaging using a built-in anterior segment lens.
2. When anterior segment measurement functions are provided, the system shall support one or more of the following measurements:
 - Anterior Chamber Angle
 - Anterior Chamber Depth
 - ICL Vault
 - Corneal Flap Thickness

Alignment and Automated Functions :

1. The system shall provide automated functions to improve imaging convenience and reproducibility.
2. The system shall provide one or more of the following functions:
 - Auto Focus, Auto Polarization, and Auto Z, or Automatic Alignment or Electrical Alignment.
3. If refractive compensation is provided, the system shall meet either of the following requirements:
 - Standard refractive compensation function provided by the manufacturer, or Refractive compensation range from -33 D to +40 D or greater

Image Analysis :

1. The system shall provide quantitative analysis functions for OCT images.
2. The system shall support one or more of the following functions:
 - Layer Segmentation, 7-Layer Thickness Map, and Caliper Function, or RNFL and GCC thickness measurement with progression analysis.
3. When 3D image analysis is provided, the system shall support one or more of the following functions:
 - Magnification
 - Reduction
 - Rotation
 - Cropping
 - Sectional analysis
 - Cross-sectional image analysis

Image Display and Data Management :

1. Acquired images shall be displayed and analyzed using a dedicated computer or workstation.
2. The system shall be capable of storing, retrieving, reviewing, and managing OCT and fundus images.
3. The system shall provide a DICOM interface for PACS connectivity.
4. The system shall be capable of importing or comparing previously acquired or external images, where applicable.

II. Consist of : (A Model or B Model)**A - Model :**

1. Main body(DRI OCT Triton Plus)	1ea
2. External fixation target	1ea
3. Computer system	1ea
4. PACS (DICOM)	1ea
5. Power cable	1ea
6. Software (IMAGEnet6)	1ea
7. Fuse	1ea
8. LAN cable	1ea
9. Dust cover	1ea
10. Service manual	1ea
11. Operation manual	1ea
12. Angiography	1ea
13. Anterior	1ea
14. Wide-field OCT	1ea
15. Smart Denoise (software, license)	1ea
16. FA, FAF (Fluorescein Angiography, Fundus Autofluorescence)	1ea
17. Adjust Instrument Table	1ea


B - Model :

1. Main body(VG 200C)	1 set
2. Powersupply	1ea

3. Monitor	1ea
4. Instrument Table	1ea
5. Operation Manual	1ea
6. Service Manual	1ea
7. OCT Server	1set
- CPU : 인텔 울트라7 270k plus 이상	1ea
- 메인보드 : GIGABYTE Z890 AORUS MASTER 이상	1ea
- 메모리(RAM) : DDR5 64GB 이상	2ea
- SSD : SK P41 M.2 NVME 1TB 이상	1ea
- HDD : Seagate IronWolf Pro 30TB 이상	4ea
- 그래픽카드(VGA) : COLORFUL 지포스 RTX 3060 Battle AX DUO V2 D6 1	1ea
- 케이스 : 3RSYS T3000 Quiet (블랙)	1ea
- 파워 : SuperFlower SF-750F14GE LEADEx III GOLD UP ATX3.1	1ea
- CPU쿨러 : 3R SF360 ARGB	1ea
- 운영체제 : WIN11 PRO 64BIT DSP	1ea
- 라이선스 키	5key

III. 특기사항

- 무상하지보증기간 : 3년
- 한국식약처 의료기기 수입품목허가증 사본 제출

