

## Description

VACIHCS Surgery has a requirement for Intraocular lens (IOL) equipment. The IOLMaster 700 (or equal) uses a swept-source OCT and telecentric optics to measure the various dimensions of the eye (e.g., axial length, lens thickness, anterior chamber depth, central corneal thickness and corneal curvature), its components and their interrelationships. The axial length and the corneal curvature are essential measurements to predict the correct lens power of an intraocular lens. It also includes software for the calculation of an intraocular lens power using a selection of formulae. If connected to a network, can transmit the biometric and keratometric data to an EMR/EHR system, ZEISS' own FORUM data management system and to ZEISS' CALLISTO eye intraoperative toric alignment system (Or equal interfacing systems).

### Salient Characteristics (Meet or exceed the following):

- **Suggested Manufacture Brand Name:** ZEISS OS\_IOLMaster 700
- **Measurement Range**
  - Axial length 14 – 38 mm
  - Corneal radii 5 – 11 mm
  - Anterior chamber depth 0.7 – 8 mm
  - Lens thickness 1 – 10 mm (phakic eye)
    - 0.13 – 2.5 mm (pseudophakic eye)
  - Central corneal thickness 0.2 – 1.2 mm
  - White-to-white 8 – 16 mm
- **Display scaling**
  - Axial length 0.01 mm
  - Corneal radii 0.01 mm
  - Anterior chamber depth 0.01 mm
  - Lens thickness 0.01 mm
  - Central corneal thickness 1  $\mu$ m
  - White-to-white 0.1 mm
- **SD of repeatability<sup>4</sup>**
  - Axial length 9  $\mu$ m
  - Corneal radii 0.10 D
  - Cylinder > 0.75 D axis 5.6°
  - Anterior chamber depth 10  $\mu$ m
  - Lens thickness 19  $\mu$ m
  - Central corneal thickness 2  $\mu$ m
  - White-to-white 90 $\mu$ m
- **IOL calculation formulas**
  - Haigis Suite [includes Haigis, Haigis-L (for eyes following myopic/hyperopic LASIK/PRK/LASEK, Haigis-T (for toric IOL power)], Hoffer<sup>®</sup> Q, Holladay 2, SRK<sup>®</sup>/T
- **Interfaces**

## Statement of Work Intraocular lens (IOL) equipment for Optic Biometry

- ZEISS FORUM® eye care data management system
- ZEISS computer-assisted cataract surgery system CALLISTO eye (via USB & FORUM)
- Data interface for electronic medical record (EMR) / patient management systems (PMS)
  - CPRS
- Data export to USB storage media
- Ethernet port for network connection and network printer
- **Line voltage**
  - 100 – 240 V  $\pm$  10 % (self-sensing)
- **Line frequency**
  - 50 – 60 Hz
- **Power consumption**
  - max. 150 VA
- **Laser class**
  - One (1)

### Required Individual line item and quantity of items

Item Number	Description/Part Number	Qty
1	ZEISS OS_IOLMaster 700 with SWEPT source OCT, Option Reference Image, includes Keyboard, Mouse, Printer and Table IT1060/ Item Code 266002-1162-219P.	1