

STATEMENT OF WORK (SOW)
AUTOMATED VISUAL FIELD ANALYZER

Northport VA Medical Center, Northport NY (632)
Optometry Service (123)

632-17-3-3086-0246

1. Introduction and Overview

An automated visual field analyzer is utilized to measure the sensitivity and extent of a person's visual field, both centrally and peripherally, in each eye. Through a variety of specialized computer programs built into the unit, it presents lighted targets of varying intensities at numerous points in the visual field to determine the threshold sensitivity across the retina. Visual fields are used to diagnose a wide variety of conditions that impact the visual system, and are also essential for monitoring the progression of certain common conditions, including glaucoma.

The Optometry Service at Northport, NY requires ONE new automated visual field analyzer, as our current 2 Humphrey Visual Field Analyzers are 13 and 14 years old, respectively (acquired in 2003 and 2004), and we anticipate they will need replacement in the near future. Both units are beyond their expected years of service (i.e.: replacement dates have passed), and both have required service calls on a number of occasions over the past few years because of defective components, including the motherboard. The outdated technology is reflected by the fact that they back up patient data onto 3.5 inch floppy disks. The current units likely will not be repairable for much longer.

As discussed above, this is an essential piece of equipment for patient care, as there are a variety of conditions affecting the visual system that can cause a loss of visual field. Visual field testing is a standard of care for diagnosing and monitoring progression of many conditions, including glaucoma. Optometry and Ophthalmology each have several hundred glaucoma patients who are followed with visual field testing. Our current Humphrey Visual Field units are used daily, and Optometry does, on average, between 40 and 50 visual field tests each week, for both Optometry and Ophthalmology patients. So the care of a few thousand patients would be impacted should our existing units fail. We are looking for the following characteristics in a new system.

- a. There is a *very strong preference* to obtain a state of the art Humphrey Visual Field Analyzer, which is manufactured by Zeiss, as opposed to a unit manufactured by another company. Different companies' units test and analyze data in different ways, and monitoring progression of a condition like glaucoma requires consistency in how testing is performed. Because we have been using Humphrey units for the past 14 years, all longitudinal data on our patients is based on the Humphrey testing protocols, so continuing to use a Humphrey is important for managing our patients. Additionally, the units themselves provide progression analyses over time on patients with glaucoma and other conditions – the ability to compare to existing data would be lost if we were to switch to another company's unit.

- b. The unit must have “liquid lens” technology, which allows the patient’s eyeglass prescription to be programmed into the unit for testing, thus eliminating the need to use trial lenses for testing.
- c. The unit must have specific testing capabilities, including SWAP.
- d. The software package must meet all IT security requirements.
- e. Software that interfaces with Vista imaging to be able to transfer captured images to a patient’s record would be highly desirable.

While this is not currently an emergent request, it would become urgent if one of our existing units were to stop functioning and be beyond repair, which, as noted above, is something that we anticipate may happen in the near future.

1.1 Background

Automated visual field testing has been a part of routine eye care for many decades, and is considered a standard of care. It is critical for the diagnosis and management of many conditions affecting the visual system, including glaucoma, optic neuropathies, stroke, traumatic brain injury, tumors of the visual pathways, and various retinal conditions.

As noted above, our current Humphrey Visual Field Analyzers are 13 and 14 years old and have required service on more than one occasion. They likely will not be serviceable for much longer, and are critical for the care and management of a large number of patients followed by both Ophthalmology and Optometry. It would also be valuable to have state of the art technology to better manage our patients.

1.2 Scope of Work

Our scope would be to acquire one automated visual field analyzer, for use in diagnosing and monitoring various conditions affecting the visual system of our veteran patients.

1.3 Objectives

1. The primary objective for procurement of one automated visual field analyzer.

1.4 Period of Performance- N/A

2. References- N/A

3. Requirements

1. Equipment to be delivered/installed upon receipt to medical center.
2. If the equipment is capable of interfacing with DICOM, assist BioMed and IT staff with this interface.
3. Training of staff, minimum one person, to be performed on site.
4. Statement of warranty of equipment, minimum one year.
5. Statement of service included or for purchase: preventive maintenance; service and repair.

3.1 Tasks

1. Deliver one automated visual field analyzer to the Northport VA Medical Center, Optometry Service, Building 200, Quad 2J, Room D2-4, 79 Middleville Road, Northport, NY 11768.
2. The vendor will provide training of staff on use of the visual field analyzer.

3.2 End Results/Deliverables- N/A

3.2.1 List of Deliverables by Task- N/A

3.3 Schedules/Milestones

1. Delivery of one automated visual field analyzer within 30 days of purchase.

3.4 Other Considerations- N/A

4. Progress/Compliance- N/A

5. Transmittal/Delivery/Accessibility

The contractor shall provide [1] hard copy of each deliverable and one electronic version as well as user's manual.