

## **1 each-Caldwell Arc Essentia Electroencephalograph (EEG) System or Equal**

### **Requirements and Salient Characteristics**

- The EEG System shall include software upgrades, peripherals, licensing requirements, customer training, shipping and handling. The systems must be fully installed and operational in the neurodiagnostics area of the Neurology section, Omaha VA Medical Center (NWIHCS), Omaha, NE.
- The EEG system must be Dicom compliant and able integrate and archive data to the existing NWIHCS VISTA/CPRS Hospital Information System/Electronic Medical Record.
- The equipment must operate on 120Vac Line current
- The amplifiers must have easy-to-access ports, use standard, non-proprietary USB and TCP/IP cables to plug into a network or computer within any clinical environment without the need to rewire existing rooms.
- The EEG system amplifier must accommodate fixed site, portable and ambulatory applications integrated into a system that provides reliable, interference-free EEG monitoring and review capabilities.
- The amplifier and EEG system must provide full functionality including onboard impedance check, integrated pulse oximeter and up to 1 KHz sampling frequency.
- The database server must ensure reliability and easy collaboration between multiple users while also accommodating full customization capabilities to fit various clinical configurations.
- The software must be able to control an IP camera and high-resolution MPEG-4 video output to produce an integrated video acquisition.
- Amplifier uses standard Ethernet and USB connectivity protocols and contains 32 channels
- Role based XL-Security package for HIPAA compliancy
- Fully customizable SQL Server database
- Digital video card
- Visual (photic) stimulator required for 32 channel amplifier and LED photic, adjustable arm
- Basic report generation software
- Basic base PC, Windows 7, 64-bit system w/ 1000 Ethernet Interface w/Digital Video
- Amplifier uses standard Ethernet and USB connectivity protocols
- Role based XLSecurity package for HIPAA compliancy
- Fully customizable SQL Server database
- Fully synchronized high resolution MPEG-4 video
- IP camera that doesn't require any cabling and can be controlled from anywhere remotely
- LED-based photic stimulator for reduction of acoustic and electrical interference
- HL7 integration with VistA/CPRS (HIS) and software for easy collaboration
- Service and support with an in-house team staffed with technical and clinical experts

### **Additional Requirements**

**Information Security**

- The contractor shall not connect any storage device into a VHA owned equipment that is connected to the network without getting the device scanned by a VA approved computer with appropriate virus detection software.
- VHA BESS personnel will ensure no patient data is removed from the facility by the vendor by maintaining a physical presence during the work.

**Test Equipment**

- Test equipment calibration shall be traceable to National Institutes of Standard Technology standards.

**Contractor Qualifications**

- Contractor must have full time staff that is “fully qualified” FSE and a “fully qualified” FSE who will serve as the backup for the equipment identified in this solicitation.
- “Fully qualified” is based upon training and on experience in the field. For training, the FSE(s) has successfully completed a formalized training program for the equipment identified in this solicitation as required by the manufacturer.
- Contractor must provide, upon request, evidence of appropriate training of any FSE(s) providing services under terms of the contract. Subcontracting of any ensuing award of this solicitation will not be allowed without written permission of the Contracting Officer.