

## **Salient Characteristics**

### **Boom System 1 for Operation Room (OR)**

- Must have an electric brake system with no air or N2O needed
- Must have a built-in emergency shut off button on the service head
- Must have KEZR and KEXS isolated power
- Must have a triple redundant ground system
- Must have non-tandem configuration (3 arms), boom arm, light arm and flat panel arm originate from single point
- Must have modular gas/data outlets that can be re-located on the boom and in the field
- Must have expandable gas and data capabilities which additional gas/data can be added to installed boom in the field
- Must have an in-field capability to adjust shelf height
- Size of service head must be no wider than 18.01 inches and no deeper than 15.12 inches
- Must have 1-3 service head options
- Must be mounted to a Stryker single common plate

### **Boom System 2 for 28 ICU rooms**

- Must have an electric brake system with no air or N2O needed
- Must have a built-in emergency shut off button on the service head
- Must have KEZR and KEXS isolated power
- Must have a triple redundant ground system
- Must have non-tandem configuration (3 arms), boom arm, light arm and flat panel arm originate from single point
- Must have modular gas/data outlets that can be re-located on the boom and in the field
- Must have expandable gas and data capabilities which additional gas/data can be added to installed boom in the field
- Must have an in-field capability to adjust shelf height
- Size of service head must be no wider than 13.04 inches and no deeper than 13.04 inches
- Mounting plate head assembly must be no deeper than 8" to accommodate patient lift clearance
- Must have 1-4 service head options
- Must be mounted to a Stryker single common plate

### **Surgical LED Lights for OR**

- Must be LED lights
- Must be compatible with Stryker SIDNE voice activated device control currently in use
- Must provide a cool light emission
- Must provide a luminous flux density (LUX) rating of 160,000 allowed under FDA regulations
- Must provide an adjustable field diameter that ranges from 7 to over 12 inches
- Must provide a depth of field that measures up to 43 inches
- Must have a reflector shield design providing a 39 degree continuous column of light
- Must have light heads made of aluminum ally
- Must provide pure white light with a color rendering index (Ra) value of >90 and an R9 value of 85 plus or minus 10%
- Must have lens covers made with a safety glass that will not yellow with age
- Must be UL certified and FDA approved
- Must use 126 watts maximum
- Must have light lens covers with a safety glass that will not yellow with age
- All critical components must be housed in a centrally located power supply box but neither inside the light nor above the ceiling to ensure easiest access in proposed solution

- Must be compatible with Stryker Visum Handle Camera currently in use

#### **Exam Lights for 28 ICU rooms**

- Light head diameter must be 30-35 CM
- Must have 7 LEDs
- Must have a minimum illumination level of 55,000 lux
- Power consumption must be <30 watts
- Must have a minimum color rendering index (Ra) of 96
- Field size diameter must be 16 cm minimum
- Depth of field must be 130 cm minimum
- Rotation must be 270 degrees
- Must mount to ceiling mounted with booms
- Must have 5 levels of intensity control

#### **In-Light Camera for OR**

- Must be capable of complete platform integration meeting the requirement of a unified solution with voice activated device control, integration router and remote diagnostic support
- Must be capable of providing a minimum of 32X zoom

#### **OR Video and Surgical Devices Management System for OR**

- Must have a medical grade router with a Class II Medical Device approval
- Must have a FDA 510K clearance
- Must have a one touch button option to turn the system on and off
- Must have a surgical checklist (time-out) integration
- Must have a complete information management system interface to be controlled from the touch panel
- Must provide a High Definition (HD) and Digital Video Interface (DVI) preview
- All video signals displayed on monitors can be in DVI format
- Must have backup video signals in VGA and in S-Video
- Must have a quad view allowing no more than four video signals to be displayed on one monitor simultaneously
- Must have Picture-in-Picture (PIP) and Picture-by-Picture (PBP).
- Must provide a configurable card matrix open-architecture framework
- Must provide touch panel video/data routing
- Must have a second touch panel allowing control in a separate location
- Must be able to route any image to any monitor with the touch of a button
- Must provide a single Keyboard/Video/Mouse (KVM) solution for up to three (3) PCs (Nurses PC, PACS PC, etc.)
- Must be able to connect to multiple room speakers
- Must have software controlled smart fans
- Must provide a 16:9 aspect ratio
- Must provide presets to configure for surgeons or cases
- 1080p resolution (up to 1200p) or 1920x1200 resolution at native resolution with no scaling required
- Must be card based system
- Must be compatible with composite (Fluoro), S-Video (Microscope), RGBHV (Hemo, PACS), 3G-SDI (Competitor Devices, DaVinci), DVI (Stryker Video, DaVinci)

#### **Endoscopic Camera for OR**

- Must have a high Definition video with 1920x1080p native resolution
- Must have a CMOS 3-Chip camera technology
- Must have an Integrated device control from the camera head

- Must have programmable buttons
- Must have four Camera Head Configurations (Standard (45 degree), Inline, Urology, Integrated)
- Must have an integrated dynamic range enhancement
- Must have an integrated desaturation capabilities
- Must be able to control of ICG viewing from the camera head buttons including backlighting and ICG laser adjustments
- Must have programmable color settings and button function settings per surgical specialty
- Must have a 18mm stainless steel coupler with single-handed focusing design
- Must have multiple advanced imaging modalities
- Must have an image brightness, high noise immunity, and clarity
- Must have 9 Surgical Specialties - optimized performance to address the specific color and lighting needs of individual surgical procedures.
- Must have an array of camera head options specific to the needs of varying surgical specialties.
- Must have an activation of the L9000 LED Light Source.
- Must be infravision compatibility
- Must have pneumatic image stability and control
- Must have an intuitive capacitive touch screen LCD interface for ease of operation
- Must have 9 cross-specialty settings for optimal color resolution and brightness

#### **Endoscopic Camera for OR**

- Must have 26" – 32" Display with LED Back Light
- Must have 16:9 aspect ratio
- Must have a minimum 1920 x 1080 native resolution
- Must have 9 preset specialty settings
- Must have On-screen user interface with shortcut keys
- Must have Integrated protective screen layer with 3H hardness
- Must have Double-sided anti-reflective coating
- Must have Built-in handles to aid in monitor
- Must have Inputs: DVI, VGA, HD/SD-SDI, C-Video, S-Video, Component
- Must have Picture in Picture, Picture by Picture, & Picture on Picture