Xerafy Instruments Tracking Demo Kit

The challenge:

Operating rooms and surgical centers can be hectic environments, with multiple patients entering and leaving for different types of procedures, conducted by different surgical teams. Every procedure requires a fresh, complete, and fully sterilized set of surgical instruments specific to that operation.

Surgical kits are assembled in advance of each procedure, matched to the patient, and counted both before and after the operation. This ensures doctors have everything they need before they begin, and verifies that no instruments are missing after the procedure. All instruments must be accounted for to ensure patient safety — many doctors have accidentally left surgical tools inside their patients.

But because of human error, 100 percent accurate instrument counting can be difficult to achieve. Many factors can compromise accuracy, including inaccurate instrument lists; personnel unfamiliar with the instruments; or a rushed staff due to a packed surgical schedule. The time necessary for a staffer to hand count instruments adversely affects procedure room turn-over time, thereby increasing costs.

RFID unique identification of instruments that meets FDA UDI (Unique Device Identification) requirements helps improve operational efficiency and patient safety for each and every procedure — which translates to huge cost savings for health care institutions while increasing operational revenue. In addition, RFID helps CSSD departments follow every tagged instrument in real-time and provides an accurate electronic status record, tracks the performance of each technician, and ensures proper sterilization of all items.

RFID Instruments tracking demo kit

Xerafy's RFID instruments tracking demo kit is designed to meet FDA UDI program requirements, and demonstrates the bulk reading and item-level tracking of surgical instruments. Xerafy autoclavable RFID tags are attached to each instrument as well as the tray.

Each tag stores the instrument's name, image, EPC and quantity. The accompanying Bluetooth UHF RFID reader will be able to automatically identify all instruments contained in the tray, and the instrument's statistics can be viewed on a mobile-based interface running iOS such as an iPad or iPhone.

Features:

- Surgical instruments with RFID tags attached using autoclavable glue.
- The attached tags can survive more than 1000 sterilization cycles.
- Stand-alone, handheld-based solution stores the instrument ID, name and image on RFID tags.
- Fast, bulk reading of 30 surgical instruments.
- Item-level tracking and unique information for each instrument.

Contents:

- 30 surgical instruments with Xerafy autoclavable XS/XXS tags attached.
- 1 stainless steel surgical tray with Xerafy autoclavable Roswell tag attached.
- 1 TSL-1128 Bluetooth UHF RFID handheld reader, including required accessories (External interface, USB operating modes, spare battery, adapter mounts, slimline grip and trigger handle) [optional].
- 10 sample Dot XS/XXS and Dash XS/XXS RFID autoclavable tags.
- Xerafy surgical instruments tracking demo software for iOS.

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For further information, please contact us at sales@xerafy.com