

Surgical Instrument Management System



Committed to Innovation

Instrutrack is a comprehensive web-based software solution that systematically integrates data, design, and technology, which governs the entire orchestration of each set and individual instrument in the hospital, from being used on the patient to being sterilized for its use again on the patient.



# Individual Instrument:



## **Individual Instrument and Tray-level Tracking:**

Instrutrack offers an option to opt for either set or individual instrument tracking. For Individual Instrument tracking, it supports scanning DataMatrix code on a surgical instrument that is either marked or stuck in a sticker form.

Individual Instrument tracking offers numerous benefits, such as compliance to trace the instrument back to the patient, the number of times the instrument has been sterilized, and how many times an instrument is sent for repair.

As a professional manufacturer of surgical instruments, we can offer unique DataMatrix laser marking on your stainless steel surgical instrument with a passivation process to avoid rusting of marking.

## **Instrument Missing, Damaged, or Sent to Repair: All Covered**

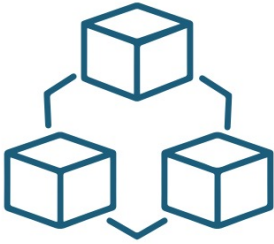
Individual Instrument marking allows you to identify, mark and isolate missing or damaged instruments.

Instrutrack also provides information on an instrument sent for repair and the cost associated with the repair.

All Missing, Damaged, Discarded, and Repaired instruments are recorded, and a report can be exported to provide better visibility of surgical asset inventory for better planning.







# Modular & Web-Based Solution: The Power of Two

## Instrutrack grows with you:

We offer a modular solution that can be adapted to healthcare facilities of all sizes. To start with your digital transformation journey, we can provide you with a module for your basic traceability needs to an advanced patient association module for OTs and OPD's.

We currently offer four modules that can offer 360° tracking and traceability of Surgical Inventory:

- o Decontamination Module
- o Control and Packaging Module
- o Patient Association Module
- o Distribution Module

Instrutrack is a web-based software that allows you to scale up and add users with specific roles and permissions within the same hospital premises.

Instrutrack can be provided as a complete software and hardware package for a fixed annual fee, lowering the initial capital investment for a hospital.



## Decontamination Module:

Decontamination Module manages the reprocessing workflow of surgical instruments and trays with complete visibility of unreturned or damaged supplementary instruments and trays.

It seamlessly interacts with the Patient Association module to prioritize fast-track items for reprocessing.

This module supports the operator in performing the cleaning steps efficiently by providing accessibility to IFU and, in some instances, providing a warning if an action is missed.

Decontamination Module also provides an option to document the steps for items that are not Washer-Disinfector compatible.

Each step performed by the operator on the items is documented for traceability and audits.

Washer-Disinfector batch is maintained for each batch processed along with the Washer-Disinfector program name & ID, operator details, successful/unsuccessful status, and Chemical Indicator documentation. A batch record can be printed after each batch is completed.



# Control and Packaging Module:

On-screen instrument assembly and count sheet generation for all the instruments received in the packing area for sterilization gives you total traceability for your instrument sets and trays.

Approved Substitutions can be added to a tray for a damaged or missing instrument.

Assembly Instructions can be obtained through IFU that can be attached to a set or individual instrument.

The system restricts the user if the wrong sterilization method is used for any item during loading in the sterilizer.

Test loads such as Bowie-Dick and Vaccum tests can be performed by the user on sterilizers, and the same can be identified and documented by the software

Items can have either expiry or event-related expiry.





# Patient Association Module:

After the items are used on the patient, they can be associated with that patient through Instrutrack. The association of instruments with the patient is mandatory.

Digital documentation of instruments or surgical sets used on the patient eliminates the paperwork, risk of document damage and saves space used for archiving patient documents. On the other hand, it helps faster retrieval of critical patient information and further details such as operator packed, sterilizer used for the process, and production date.

The module can be used in OT as well as OPDs to document instruments used on the patient.

Instrutrack offers to create storage rooms for OTs and OPDs to efficiently manage sterile inventory and, at the same time, avoid wrong delivery.

Instrutrack can integrate with the Hospital HIS system and transmit messages with international standards such as HL7 or even basic XML format, depending on the level of integration required.



# Equipment Integration:

Instrutrack offers to create equipment inventory in the CSSD, which helps to document the batch numbers processed in each equipment, whether it is Sterilizer, Washer-Disinfector, or even Ultrasonic.

Equipment Preventive Maintenance records are maintained, and a notification is generated if they are not serviced before the date of maintenance.

Equipment such as Sterilizers and Washer-Disinfectors also have weight validations wherein the operator can define a specific weight that can be loaded in the equipment, and if the weight exceeds that specific limit, the equipment gives a warning.

Batches processed in each equipment are documented and can be easily traced if needed. The number of batches processed in each equipment can be easily exported.

Equipment can be integrated with the software to provide complete paperless documentation of cycle records, process parameters, and a live view of the status of each equipment.



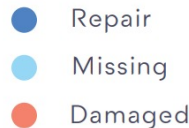
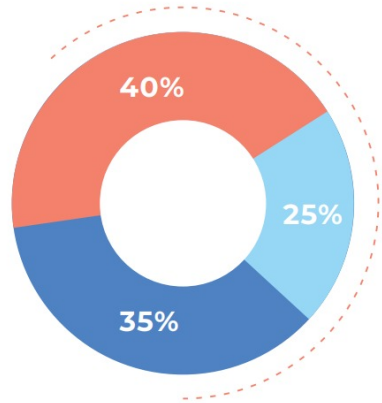
# Central Dashboard, Reporting, Roles & Permission:

## Beautiful and Intelligent: Central Dashboard by Instrutrack

Instrutrack offers a dynamic BI central dashboard with various graphs to identify key events, such as types of incidents reported frequently to a number of items processed daily. It gives the operator information that is vital to make a decision.

One such graph is the number of items at each step of reprocessing; this helps the user distribute the resources properly and identify bottlenecks.

Central Dashboard is colorful, interactive and provides the option to filter the data based on period or navigate to a particular information.



## Reporting:

Reporting is a crucial element for the decision makers for quality audit and continuous improvement; hence Instrutrack offers more than 15 reports which include but are not limited to:

- o Instruments that are missing, damaged, sent for repair and discarded.
- o Performance report for each machine with batch details and cycle record for each.
- o Performance report for the operator.
- o Historical data for the set or individual instrument.
- o Location and Status for Individual items.
- o And many more.

Filters can be used within the reporting screen, and export can be achieved in CSV format.

Reporting module can be accessed by the operators that have permission to do so.

## Roles and Permission:

Instrutrack has integrated feature for roles and permission. The administrator can define permission for certain roles which can be then assigned to a user.

Special permission can be given to certain users for editing the Inventory Information.

# Why Instrutrack?



## Making CSSD a profit Center:

A unique identification number for every instrument helps you to keep track of instrument losses, new purchases, and repair costs which will be useful to preserve the inventory value and manage the cost control process of the hospital.



## Improved Accuracy and Quality Assurance:

On-screen instrument assembly, along with supporting IFU improves accuracy in inspection and packaging.

Secure digital record keeping and archiving; with strict compliance, guidelines help to assure the quality of surgical instrument traceability leading to increased safety of patients.

## Additional Benefits:

- o Incident Reporting
- o On-Screen Instrument Assembly
- o Loaner Tray management
- o Recording of Sterilization Indicators



## Improved Process Efficiency:

With clear visibility of instrument location and fast-track instrument processing, instrument delivered in line with surgical schedules reduces time spent searching for instruments and automatically prioritize them as per the case start time.



## Total visibility for real-time decisions:

Complete patient association integrated with a wide range of reprocessing equipment, automated data capture, and process validation data with the complete visibility to unreturned or damaged supplementary instruments and surgical trays and the seamless interaction with sterilization and operating room module helps to prioritize the fast-track sets for reprocessing through an automatically updated real-time central dashboard.

- o Case/Patient level traceability
- o User customization
- o Web-Based Software





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