



AutoSurgical: Instrument Registration, Set Verification, and OR Workflow

A product and implementation brief for instrument identity, set completeness, workflow state, and traceable verification.

Who it's for

Perioperative leaders, sterile processing, operating-room management, quality, and clinical IT

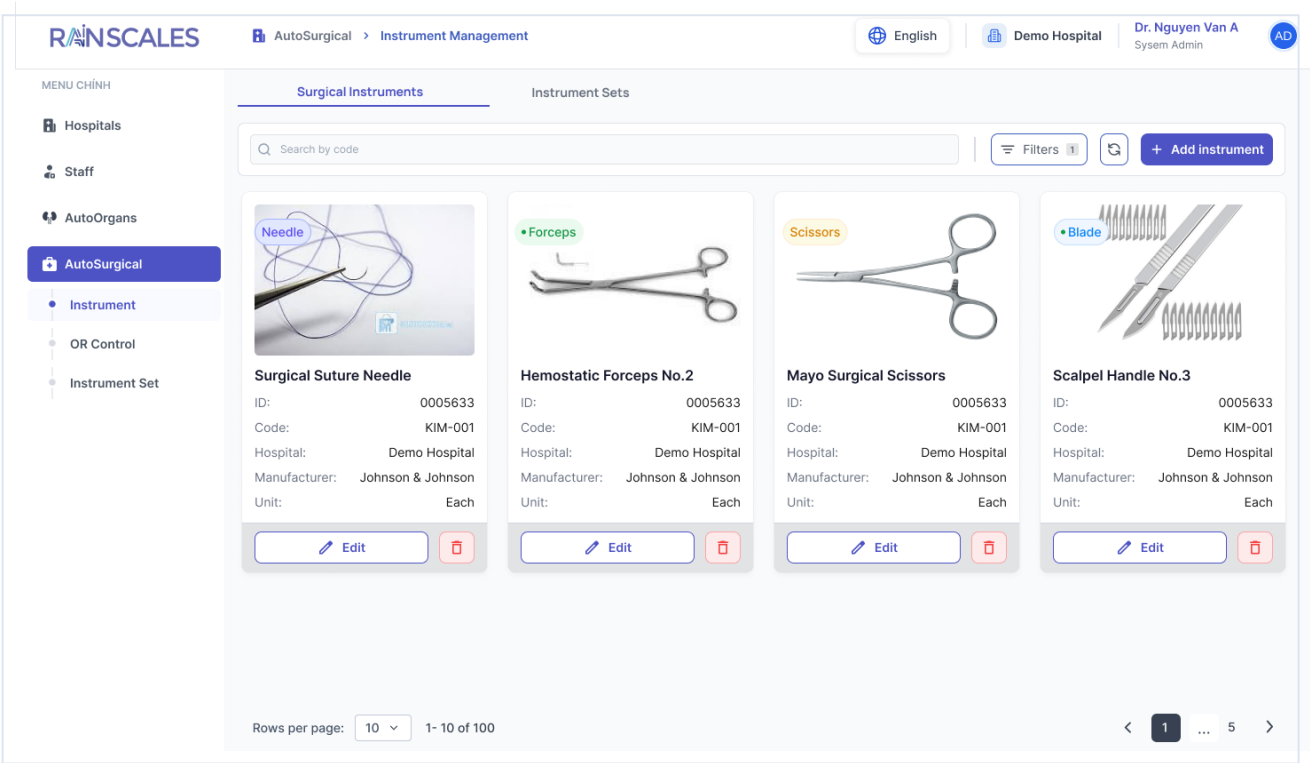
Scope

Product and workflow information grounded in supplied Rainscales materials. Not clinical guidance or a regulatory statement.



Surgical Instruments – Surgical instrument catalogue

01 Instrument Instrument is AutoSurgical's master-data area, where individual surgical instruments are defined and grouped into the standard instrument sets used for counting in the operating room. 1.1 Surgical Instruments A centralized catalogue of the hospital's surgical instruments, displayed as cards with a reference image. – Two tabs: Surgical Instruments (instrument catalogue) and Instrument Sets (instrument sets). – Each card shows the instrument's image and classification label. – Instrument information. – Instrument images serve as reference data, helping staff quickly identify instruments and supporting the AI recognition model.



Surgical Instruments – Surgical instrument catalogue

OR Control – AI-powered instrument counting in the operating room

02 OR Control OR Control is the in-OR operating screen that lets the surgical team count instruments using camera and AI at each stage of the surgery, catching missing or extra instruments early, before the incision is closed. 2.1 Per-Case Instrument Count A screen tied to a specific surgery, split into three counts along the surgical timeline. — Header shows the case code, operating room, patient information, and surgery type. — Three count tabs: Initial Count, Added Items Count, and Final Count. — Select the correct instrument set to reconcile against before capturing the AI scan, e.g. Neurosurgery Set (52 instruments). — Capture to photograph and record the count result; End Case to close out the surgery. — Per-set results table with three states: Missing, Extra (not part of the set), and Complete, with the related instrument names and IDs. — Capture History keeps every capture along with the AI-recognized instrument list for later traceability.

RAINSCALES

AutoSurgical > OR Control

English

Demo Hospital

Dr. Nguyen Van A
System Admin

AD

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OR-2026-0015 OR 04

Patient : BN-2024-002 • Nguyen Van • Male • 45 Yrs

🔗 Laparoscopic Abdominal Surgery

Initial Count

Added Items Count

Final Count

Select the correct instrument set before capturing the AI scan

Neurosurgery Set (52 Instruments)

LIVE - CAMERA 01

CAPTURE

END CASE

NEUROSURGERY SET (52 INSTRUMENTS)

2 missing - Surgical Needle No.1 (ID: 005672 - KPT1)

1 missing - Mayo Scissors (ID: 005672 - KPM)

Missing

GENERAL SET (18 INSTRUMENTS)

1 extra - Surgical Forceps (not in set, ID: 009912)

1 extra - Pean Hemostatic (ID: 005688 - PCM)

Extra

MINOR SET (9 INSTRUMENTS)

Complete

Capture History (5)

Tap to view images and AI-detected Instruments

Overview

OR Control – AI-powered instrument counting in the operating room

Surgical Instrument Set Verification – Verify the set against the standard list

03 Set Verification Set Verification supports checking an instrument set before and after surgery, comparing the actual count against the set's standard list and recording the confirmation result. 3.1 Surgical Instrument Set Verification A screen for checking one specific instrument set with AI-assisted recognition. – Header shows the set under review, e.g. Cardiac Surgery Set (78 Instruments). – Live camera view with bounding boxes around AI-recognized instruments; Capture to take additional reconciliation photos. – Status bar shows overall progress as x/y, with a warning when instruments are missing. – Detailed list of each instrument with name, ID, Code, and counted quantity versus the standard quantity. – Three states per row: missing, extra, and complete; with a search box by name or code. – Captured Images stores the photos taken during the verification session, viewable in order. – Notes & Confirmation to record the verification result; Save to confirm or Cancel to discard.

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AutoSurgical > Surgical Instrument Set Verification

English

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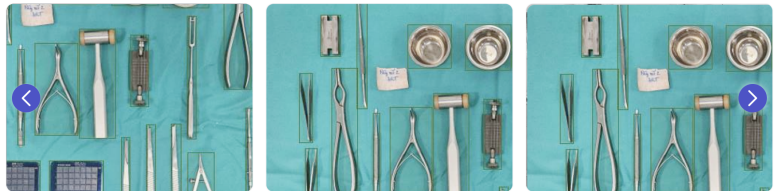
Surgical Instrument Set Verification
Now Verifying: Cardiac Surgery Set (78 Instruments)

LIVE - CAMERA 01



CAPTURE

Captured Images (3)



Status & Details

2 instruments missing
Please recount the set

23/25

Search by instrument name, code

ⓘ	Metzenbaum Scissors ID: 005673 - Code : SC-0012	0/2
ⓘ	Metzenbaum Scissors ID: 005674 - Code : SC-0013	0/2
+	Mayo Scissors (Straight) ID: 005677 - Code : SC-0016	+1
✓	Hemostatic Scissors ID: 005634 - Code : SC-0004	3/3
✓	Scalpel Handle #4 ID: 006523 - Code : SC-0012	3/3
+	Mayo Scissors (Straight) ID: 005698 - Code : SC-0045	+1
✓	Hemostatic Scissors ID: 005622 - Mã Sđ : SC-0011	3/3

Notes & Confirmation

Enter verification notes here...

SaveCancel

Surgical Instrument Set Verification - Verify the set against the standard list



Review the workflow with Rainscales

Use this guide to structure a review with clinical, operational, privacy, security, and regulatory stakeholders.